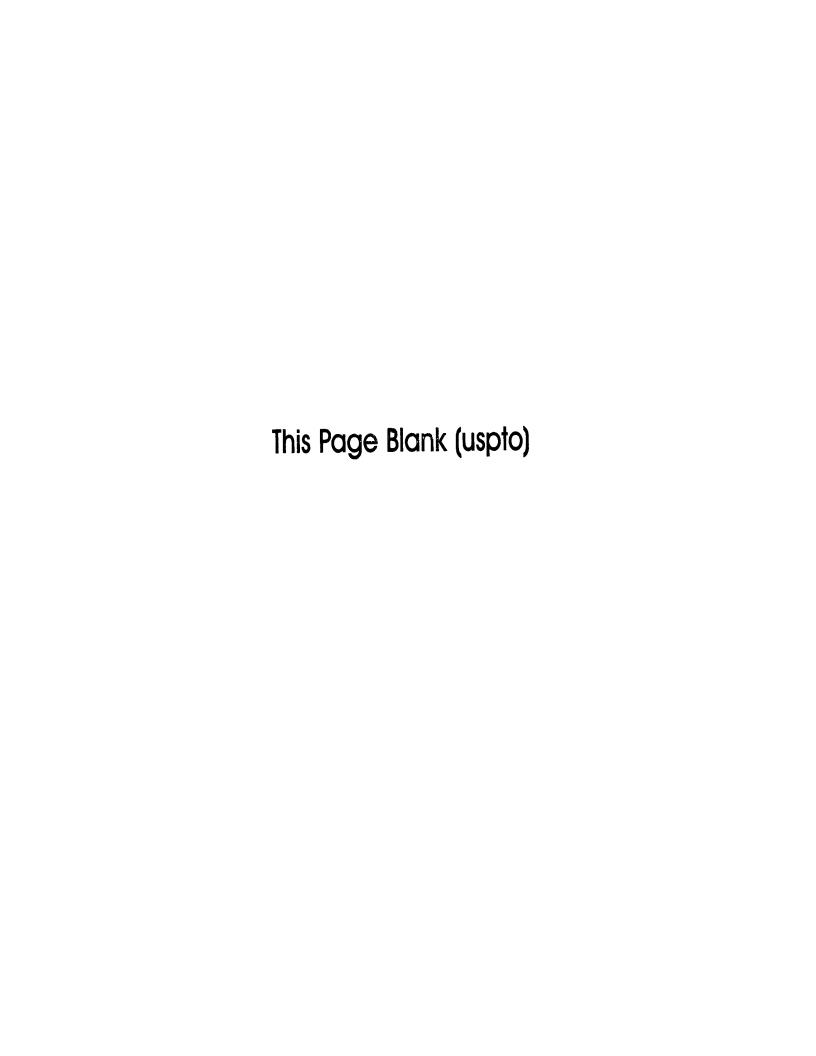
Structure

PTO-1590 (9-90)

Bibliographic

DARC/Questel

Other Can





GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 5, 2005, 08:57:44 ; Search time 645 Seconds (without alignments) 9306.384 Million cell updates/sec

Perfect score: Title: US-10-735-991-5 1014

Sequence:

Scoring table:

1 atgaactcgtgggacgcggg.....ttctgccggtgtctgagtga 1014

IDENTITY_NUC Gapop 10.0 , Gapext 1.0

Searched:

Total number of hits satisfying chosen parameters: 8780412

4390206 seqs, 2959870667 residues

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database N_Geneseq_16Dec04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:* geneseqn2000s:*
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geneseqn2002as:*

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SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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	Aas08268 Human cDN	Aah73502 Human G p	Aad08865 Human G-p	Aaf59997 Human G p	Aac64108 Human G p	Abz24430 Human con	Adl96477 Human G p	Aas07950 Human cDN	Ach39042 Human foe	Aas68630 DNA encod	Adq94491 Rat G-pro	Ado29057 Mouse nov	Abs73406 cDNA enco	Adf70549 Orphan re	Aaz00034 G protein	Adg89177 Human uro	Ado29763 Human nov	Abk47595 cDNA enco	Adq94489 Mouse G-p	Adq94493 Human G-p	Description	

ALIGNMENTS

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<pre>/product= "Human G-protein coupled receptor sequence 11</pre>	/*tag= a	CDS 11014	Key Location/Qualifiers		Homo sapiens.		sequence 115; human; gene; ss.	mammalian sequence 115; obesity; cachexia; G protein coupled receptor;	anorectic; immunomodulator; gene therapy; body weight;		Human G-protein coupled receptor sequence 115 cDNA.		23-SEP-2004 (first entry)		ADQ94493;		ADQ94493 standard; cDNA; 1014 BP.	4493	LT 1

equence 115"

US2004121395-A1.

24-JUN-2004.

15-DEC-2003; 2003US-00735991.

23-DEC-2002; 2002US-0436375P

(GOOD/) GOODNOW R A. (MARK/) MARK D F. (MART/) MARTIN M L. (ROSI/) ROSINSKI J A.

Goodnow RA, Mark DF, Martin ML, Rosinski JA;

WPI; 2004-468185/44. P-PSDB; ADQ94494.

Identifying compounds, useful for modulating body weight and for treating obesity and cachexia, comprises contacting a test compound with a mammalian sequence 115.

Claim

36;

SEQ

IJ NO 5;

28pp; English.

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CC The invention describes a method of identifying compounds useful for CC modulating body weight, comprising contacting a test compound with a CC mammalian sequence 115. The method comprises: contacting a test compound CC with a mammalian sequence 115; determining whether the test compound CC binds to the mammalian sequence 115; and identifying a compound that CC binds to the mammalian sequence 115 as a compound useful for modulating CC body weight. Also described are: a pharmaceutical formulation or CC composition, for modulating body weight, comprising a compound that CC modulates the activity of a mammalian sequence 115, mixed with a CC pharmaceutical carrier; a package comprising the pharmaceutical CC formulation and instructions for administering the pharmaceutical CC composition useful for modulating body weight; treating obesity and CC cachexia; and an antibody that recognises an isolated polypeptide comprising a sequence of 1014 or 337 amino acids (SEQ ID NOS: 5 or 6). CC The method is useful for identifying compounds useful for modulating body weight. The formulation or composition and methods are useful for CC coupled receptor sequence 115.
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Best Local Similarity 100.0%;
Matches 1014; Conservative (
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The invention describes a method of identifying compounds useful for modulating body weight, comprising contacting a test compound with a mammalian sequence 115. The method comprises: contacting a test compound with a mammalian sequence 115; determining whether the test compound

compound

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ARESULT 2
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(MART/)
(ROSI/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-DEC-2002; 2002US-0436375P
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MARTIN M L.
ROSINSKI J A.
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                                                                                                                                               ng compounds, useful for modulating body weight and for nd cachexia, comprises contacting a test compound with a sequence 115.
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CC binds to the mammalian sequence 115; and identifying a compound that CC binds to the mammalian sequence 115 as a compound useful for modulating CC body weight. Also described are: a pharmaceutical formulation or CC composition, for modulating body weight, comprising a compound that modulates the activity of a mammalian sequence 115, mixed with a CC pharmaceutical carrier; a package comprising the pharmaceutical CC formulation and instructions for administering the pharmaceutical CC formulation useful for modulating body weight; preparing a pharmaceutical CC composition useful for modulating body weight; treating obesity and CC cachexia; and an antibody that recognises an isolated polypeptide CC comprising a sequence of 1014 or 337 amino acids (SEQ ID NOS: 5 or 6). The method is useful for identifying compounds useful for modulating body weight. The formulation or composition and methods are useful for treating obesity and cachexia. This sequence encodes G protein coupled covered to the composity and cachexia. This sequence encodes G protein coupled covered to the composition of the composition composition and methods are useful for composition and methods are useful for composition composition.
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Best Local Similarity 100.
Matches 1011; Conservative
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The present invention relates to a new polypeptide encoded by a polymucleotide comprising a fully defined sequence of 1014 base pairs, as given in the specification. The polypeptide of the invention comprises a sequence at least 95% identical to a fully defined sequence of 337 amino acids as given in the specification, or a fragment or variant. The polypeptide, a putative G protein-coupled receptor designated AXOR49, and the nucleic acid that encodes it are useful for treating a very wide range of disease, e.g. infections (bacterial, viral, fungal or protozoal, especially human immune deficiency virus-i or -2), pain, cancer, diabetes, Parkinson's diseases, heart failure and allergy. The molecules of the invention can also be used to diagnose (susceptibility to) diseases (including detecting mutations or measuring mRNA or protein
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Pred. No. 4.4e-172;
0; Mismatches 2;
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ANDO19 Ś 뭕 밁 muscular disorder; blood disorder; immune disorder; bone disorder; joint disorder; metabolic disorder; nutritive disorder; cancer; kidney disorder; liver disorder; lung disorder; breast disorder; svary disorder; uterus disorder; prostate disorder; testis disorder; skin disorder; stomach disorder; pancreas disorder; spleen disorder; thymus disorder; thyroid disorder; antiparkinsonian; antimanic; cycostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic; cycostatic; antivorse; respiratory; antidaterhoeic; anticider propic; antibacterial; antianaemic; antiesborrhoeic; virucide; hepatotropic; antibacterial; antianaemic; antiesborrhoeic; dermatological; antiulcer; antithyroid; antiallergic; anorectic; immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human; colon transgenic G protein-coupled receptor; GPCR; 29-JUL-2004 AD029763 AD029763 sapiens 961 106 961 genic mouse; neurological disorder; adrenal gland disord disorder; intestinal disorder; cardiovascular disorder; standard; TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAGTGA 1014 TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAGTGA 1014 GPCR (first GPR26 CDNA; entry) polynucleotide, drug screening; diagnosis; sorder; adrenal gland disorder; SEQ ID NO:865 960

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WO2004040000-A2

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09-SEP-2003; 2003WO-US028226

09-SEP-2002; 2002US-0409303P 09-APR-2003; 2003US-0461329P

PRIMAL INC.

Gaitanaris ۲ GA, Bergmann
Mcilwain KL, JE, Gragerov Pavlova MN, A, Hohman Vassilatis Hohmann ָם, נֻם, Li F; Zeng H;

2004-390329/36.

Novel mammalian G protein coupled receptors, useful for identifying compounds that modulates diagnosing and treating disease condition associated with GPCR dysfunction e.g. autoimmune diseases, angina Parkinson's disease.

SEQ ID NO 865; 542pp; English.

The invention relates to human and mouse G protein-coupled receptors (GPCRs) and nucleic acids encoding them. The invention also relates to sequences at least 90% identical to the GPCR proteins and nucleic acids of the invention; methods of treating, preventing or diagnosing diseases associated with GPCRs of the invention; methods of screening for compounds useful in the treatment of GPCR-related diseases; a transgenic mouse comprising a GPCR gene of the invention; a mouse comprising a mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived from the transgenic mice. Which has from the transpenic mice; kits comprising several mice, each of which has a mutation in a different GPCR gene of the invention; and kits comprising probes which hybridise to GPCR polymucleotides of the invention. The invention further discloses variants of the GPCR polypeptides and vectors comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may be used in the diagnosis, treatment or prevention of a wide variety of

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CC diseases including neurological disorders (e.g., Alzheimer's disease, CC depression, disbetic neuropathy, Parkinson's disease or schizophrenia); CC disorders of the edrenal gland; disorders of the colon or intestine CC (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel CC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or CC myocardial infarction); muscular disorders; blood disorders (e.g., accimmune disorders or CC anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or CC AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid CC arthritis, gout or osteoporosis; metabolic or nutritive disorders (e.g., obsity, enzyme deficiency-related diseases or vitamin deficiency-related CC diseases); and disorders of the kidney, liver, lung, breast, ovary, uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and CC thyroid (e.g., cancers). The present sequence data for this cultic acid of the invention. Note: The full sequence data for this patent did not form part of the printed specification; those sequences of the shown were obtained in electronic format directly from WIPO at
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The present invention describes the use of polypeptides related to urological disorders for identifying a compound capable of treating

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30-JUL-2003;
02-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-FEB-2003;
27-MAR-2003;
08-MAY-2003;
19-MAY-2003;
                                                                     Claim 1; SEQ ID NO 129; 542pp; English.
                                                                                                                                          Use of polypeptides related to urological disorders, e.g. 44390, 211 or for identifying a compound capable of treating a urologic disorder or identifying and treating a subject having a urologic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2004065576-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   urological disorder; uropathic; cytostatic; urinary benign prostatic hyperplasia; human; gene; ss.
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Best Local Similarity
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Pred. No. 8.7e-172;
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Query Match Best Local Similarity Matches 1011;

99.5%;

Score 1009.2; DB 2 Pred. No. 8.7e-172; 0; Mismatches 3;

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Length 2581;

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Conservative

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Sequence

2581

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499 A; 740 C; 753

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                                          The sequence is the G protein coupled receptor flh2882 gene. The flh2882 protein AAY28488 is expressed predominantly in the brain and is 337 amino acids in length. The protein has seven transmembrane domains, AAY28489-Y28495. The type of response mediated by the flh2882 protein is dependent on the type of cell in which it is expressed eg. binding of ligand to flh2882 may result in adhesion migration or differentiation. Regardless of the cellular activity, it is universal that flh2882 interacts with a "G protein". The flh2882 protein and gene are useful for isolating compounds that modulate expression of or bind and interact with flh2882. They can also be used to identify homologues and allelic variants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                        protein-coupled receptor gene, flh2882, useful for identifying
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/product= "flh2882"
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23-JUL-2002; 2002JP-00213949.
11-OCT-2002; 2002JP-00298237.
                                                                                                                                                                                                                                                                                                                                                                                              ligand; orphan receptor protein; fusion protein; fluorescent protein; cell expression; green fluorescent protein; GFP; GFP-1; wild-type GFP; GFPuv; Enhanced GFP; EGFP; human; gene; ds.
P-PSDB;
                                                          Hinuma
                                                                                                                                                                                                                           21-FEB-2003; 2003WO-JP001901
                                                                                                                                                                                                                                                                                                                WO2003071272-A1
                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Orphan receptor ligand-related human protein gene
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                                                                                                    TAKEDA CHEM IND
                                                      Fujii R,
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                                                      Ogi K,
                                                          Komatsu
                                                        Ħ,
                                                          Kawamata
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Transformation of cells with a fusion protein of an orphan receptor protein with a fluorescent protein useful for identification of ligands to the orphan receptor.

Example 4; SEQ ID NO 172; 594pp; Japanese.

This invention relates to a novel method of identifying ligands to an orphan receptor protein which comprises transforming cells with DNA encoding a fusion protein of the orphan receptor with a fluorescent protein, so that the fusion protein is expressed in the cells (or cell membranes isolated from them) and contacting the cells with the potential ligand to be tested. A suitable fluorescent protein for incorporation in the fusion protein is green fluorescent protein (GFP), for example GFP-1, wild-type GFP, GFPuv or Enhanced GFP (EGFP). The method is useful for the identification of ligands binding to an orphan receptor protein.

Sequence 1728 BP; 382 A; 521 C; 452 G; 373 T; 0 U; 0 Other;

밁 Ś δ 밁 밁 S 밁 Ś Best Local Sim Matches 1008; Query Match Best Local Similarity 181 181 121 121 61 61 Н Н ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGCTGCACCCGTGGTCAACATG CTGTCCAACGCGCTGGTGCTGCTGCTGCTGCACAGCGCGGACATCCGCCGCCAGGCG CTGTCCAACGCGCTGGTGCTGCTGCTGCTGCACAGCGCGGACATCCGCCGCCAGGCG ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG CCGCTCACGCTGGCCGGCGTCGTGGCGCAGCGGCAGCCGGCGGCGACCGCCTGTGCCGC CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACTTGCTGTGCACCGTGGTCAACATG Conservative 99.2%; **,** Score 1006.2; DB Pred. No. 3e-171; 0; Mismatches DB 10; ω •• Indels Length 1728; 0; Gaps 240 240 180 180 120 120 60 60 0

RESULT 7 ADF70549 ID ADF70549 standard;

DNA;

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CTGGCTGCCTTCCTCGACACCCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCGCCTC

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                                                                                                                                                        Human; transmembrane receptor; G-protein coupled receptor; GPCR; allergy; hypertension; reflux disease; depression; migraine; schizophrenia; ulcer; psychotic disorder; asthma; bronchospasm; anaesthesia; myocardial infarction; MI; stroke; glaucoma; anxiety; prostatic hyperplasia; epilepsy; prostate cancer; rhinitis; angina; prostatic hypertrophy; gene; ss.
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Best Local Similarity
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                                          TTCCTGCTCCTCCTTCGTCGTGCTCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
                                                                                          CGGCGGCCGGACGAGCGCCTGCGCTTCGCCGTATTCACTGGCGCCCTTCCACGCTCTCAGC
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Pred. No. 8.7e-
0; Mismatches
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Maciejewski-Lenior Ö Leonard ä

New human G-protein coupled receptor (GPCR), useful for screening agonist or inverse agonist compounds for treating diseases associated with GPCR.

The present invention relates to transmembrane receptors, particularly endogenous human G-protein coupled receptors (GPCRs), mutant (non-endogenous) versions of the GPCRs, and the polynuclectide sequences encoding them. The GPCRs are useful for screening agonist or inverse agonist compounds for treating diseases associated with GPCR. Diseases that can be treated with such compounds include allergies, hypertension, reflux disease, depression, migraine, schizophrenia, ulcers, psychotic disorders, asthma, bronchospasm, anaesthesia, myocardial infarction (MI), stroke, glaucoma, prostatic hyperplasia, epilepsy, prostate cancer, anxiety, prostatic hypertrophy, rhinitis, and angina. The present sequence encodes an endogenous human GPCR

ATGAACTCGTGGGAGACGCCGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG e 986.8; Db v, 1. No. 8.7e-168; 1. No. 8.7e-17; Indels Length 0, Gaps

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RESULT 9
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AD 29057
AD 2002
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KW transgenic mouse; neurological disorder; adrenal gland disorder;
KW colon disorder; intestinal disorder; cardiovascular disorder;
KW muscular disorder; blood disorder; immune disorder; bone disorder;
KW joint disorder; metabolic disorder; nutritive disorder; cancer;
KW kidney disorder; liver disorder; lung disorder; breast disorder;
KW kidney disorder; uterus disorder; prostate disorder; testis disorder;
KW ovary disorder; therus disorder; prostate disorder; spleen disorder;
KW skin disorder; stomach disorder; pancreas disorder; spleen disorder;
KW thymus disorder; thyroid disorder; antiparkinsonian; antimanic;
KW cytostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic;
KW (CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic;
KW virucide; hepatotropic; antibacterial; antianaemic; antiseborrhoeic;
KW dermatological; antiulcer; antithyroid; antiseborrhoeic;
KW immunosuppressive; nephrotropic; gene therapy; GPCR modulator; mouse;
KW minutar. Cana.
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Madisen L,
      WPI; 2004-390329/36
P-PSDB; ADO29056.
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Mcilwain
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                                                                                        JE, Gragerov A, Hohmann
Pavlova MN, Vassilatis D
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Novel mammalian G protein coupled receptors, useful for identifying compounds that modulates diagnosing and treating disease condition associated with GPCR dysfunction e.g. autoimmune diseases, angina pectoris, Parkinson's disease.

Claim 13; SEQ ID NO 156; 542pp; English

CC mouse comprising a GPCR gene of the invention; a mouse comprising a GPCR gene of the invention; a mouse comprising a CCC from the trasngenic mice; kits comprising several mice, each of which has CCC amutation in a different GPCR gene of the invention; and kits comprising cCC probes which hybridise to GPCR gene of the invention; and kits comprising cCC probes which hybridise to GPCR polynucleotides of the invention. The CCC comprising a GPCR mucleic acid. The GPCR pulpeptides and vectors CCC comprising a GPCR mucleic acids and proteins may CCC be used in the diagnosis, treatment or prevention of a wide variety of CCC diseases including neurological disorders (e.g., Alzheimer's disease, disease); disorders of the colon or intestine CCC (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel CCC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or myocardial infarction); muscular disorders (e.g., atoimune disorders (e.g., atoimune disorders or AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid CCC arthritis, grout or osteoporosis); metabolic or mutritive disorders (e.g., obesity, enzyme deficiency-related diseases or vitamin deficiency-related diseases); and disorders (e.g., cancres, skin, stomach, pancreas, spleen, thymus and thyroid (e.g., cancers). The present sequence represents a GPCR-encoding CCC muterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and CCC not shown were obtained in electronic format directly from WIPO at CCC not shown were obtained in electronic format directly from WIPO at CCC. (GPCRs) and nucleic acids encoding them. The invention also relates to sequences at least 90% identical to the GPCR proteins and nucleic acids of the invention, methods of treating, preventing or diagnosing diseases associated with GPCRs of the invention; methods of screening for compounds useful in the treatment of GPCR-related diseases; invention relates to human and mouse G protein-coupled receptors a transgenic diseases

Sequence 1011 BP; 165 A; 347 ü 282 G; 217 T; 0 U; 0 Other

밁 S Query Match
Best Local Sim
Matches 922; Similarity 85.7%; 91.3%; 0 Score 869.2; Pred. No. le Mismatches 869.2; DB 12; Length 1011; No. 1e-146; 0 Gaps 0

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1 ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGCACGATGGGCGTTCTCGTTG	42	CGCGACGCGCGCTCATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCAGCCGCC	γQ
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1 ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGCACGATGGGCGTTCGCTG	24	CCACTAACACTGGCCGGCGTCGTCGCACAACGGCAGCCGGCCG	В
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mammalian sequence 115; obesity; cachexia; G protein c
sequence 115; rat; gene; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers 27. .1040
                                                                                                                                                                                                                                                                                                                                                                                      product= "Rat G-protein coupled receptor sequence 115"
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Sequence 1172 BP; 201 A; 383 C; 338 G; 250 T; 0 U; 0 Other;

coupled receptor sequence 115.

body

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The invention describes a method of identifying compounds useful for modulating body weight, comprising contacting a test compound with a mammalian sequence 115. The method comprises: contacting a test compound with a mammalian sequence 115; determining whether the test compound that binds to the mammalian sequence 115; and identifying a compound that binds to the mammalian sequence 115; as a compound useful for modulating body weight. Also described are: a pharmaceutical formulation or composition, for modulating body weight, comprising a compound that modulates the activity of a mammalian sequence 115, mixed with a composition and instructions for administering the pharmaceutical formulation and instructions for administering the pharmaceutical formulation for modulating body weight; preparing a pharmaceutical composition useful for modulating body weight; treating obesity and cachexia; and an antibody that recognises an isolated polypeptide composition useful for identifying compounds useful for modulating body weight. The formulation or composition and methods are useful for treating obesity and cachexia. This sequence encodes rat G protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; SEQ ID NO 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mammalian sequence 115.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying compounds, useful for obesity and cachexia, comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goodnow RA,
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DB; ADQ94492.
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δ 밁 δ 뫄 á 밁 δ

S 8 밁 8 밁 Ś 멍 밁 δ 밁 5 망 8 밁 밁 S Matches Query Match Best Local Similarity 447 421 387 361 327 301 267 241 207 181 147 121 CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCGTGGTCAACATG 923; 87 61 CTGTCCAACGCGCTGGTGCTGCTCTGCCTGCACAGGGGGGACATCCGCCGCCAGGCG 27 CTGGCTGCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCTC ATGAACTCGTGGGAGACGCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG GCGCTCGCCCTGTCCTGGCTCGGCCTTCCACCAGCTGTACGCCTCGTGCACGCTGTGCAGC AGCATCGACCGCTGGGTGGCCGTGGTCTTCCCGCTGAGCTACCGGGCCAAGATGCGCCTC CTGGCCGCCTTCCTCGACACCTTTCTGGCCGCCAACTCCATGCTCAGTATGGCCGCCTC CCGCTCACGCTGGCCGCGTCGTGGCGCCAGCCGGCCGACCGCCTGTGCCGC CTGTCCAACGGGCTGGTGCTGCTGCCTCCTGCACAGCGCTGACATCCGCCGCCAGGCG ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTGCTGGTGGGCACAATCGGCGTGTCGCTG CGAGATGCCGCCTTCATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCGGCCACC AGCATCGACCGCTGGGTGGCTGGCTTCCCGCTGAGCTACCGTGCCAAGATGCGCCTC ccacital cacide cercere de caca ca a ce esta en conserva de conser CCGGCGCTCTTCACTCTCAACCTCACGTGTGGCAACCTGCTGTGTACCGTGGTCAACATG Conservative 85.6%; Score 868.4; DB 12; Pred. No. 1.4e-146; Pred. No. 1.4e-146; 0; Mismatches Indels Length 1172; 0 Gaps 506 480 446 420 386 360 326 300 266 240 206 180 120 86 60

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CGGCGGCCAGACGAGCGCCTGCGCTTCGCCGTCTTCACTGGCGCCTTCCACGCTCTCAGC

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RESULT 11
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                                                     New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
                                                                                                                                                                                                                                                                                                                                                               31-MAR-2000; 2000US-00540217
23-AUG-2000; 2000US-00649167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
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                                                                                                                                                                                                                                                                                                               HYSEQ INC.
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Claim 1; SEQ ID NO 4434; 103pp; English

RESULT 12 ACH39042 ID ACH39

ACH39042

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostice as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC useful for generating antibodies against it, detecting or quantitating a
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC is ites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC coding sequences of the invention. Note: The sequence data for this
CC coding sequences of the invention. Note: The sequence data for this
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
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                                                                                      932
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ACATTCTGCCGGTGTCTGAGTGA 1014
                                                                        GGCTCCTGCACAGACGCTCCATCCACTCCTCTGGCCTCACAGGCGACTCTCACAGCCAGA
                                                                                                                                                 CCTTTGTGTACTCCTTACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACA
                                                                                                                                                                                                                        TCGGCTCCCACTGGGGGGTGCTGTCCAAGTGCTTGGCGTACAGCAAGGCCGCATCCGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCAGACGCTGGTGCTGCTGGTGGACCCTGCACCCCAGTGTGCGGGAACGCTGTCTGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTACCTCAAGGGGCTCAAGGTGGCCCGCTTCCATTGCAAGCGCATCGACGTGATCACCA
                                                     GGCTCCTGCACAGACGCTCCATCCACTCCTCTGGCCTCACAGGCGACTCTCACAGCCAGA
                                                                                                                            CCTTTGTGTACTCCTTACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACA
                                                                                                                                                                                                   TCGGCTCCCACTGGGGGGTGCTGTCCAAGTGCTTGGCGTACAGCAAGGCCGCATCCGACC
                                                                                                                                                                                                                                                                           TTGTGTGCTTCGCGCCCTATGTGATCACCAGGCTAGTGGAGCTCTTCTCCACGGTGCCCA
                                                                                                                                                                                                                                                                                                  TTGTGTGCTTCGCGCCCTATGTGATCACCAGGCTAGTGGAGCTCTTCTCCACGGTGCCCA
                                                                                                                                                                                                                                                                                                                                                    AGCAGAAGCGGAGGCGACAGCGAGCCACCAAGAAGATCAGCACCTTCATAGGGACCTTCC
                                                                                                                                                                                                                                                                                                                                                                                     AGCAGAAGCGGAGGCGACCGAGCCACCAAGAAGATCAGCACCTTCATAGGGACCTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                           TGCAGACGCTCGTGCTGCTGGACCTGCACCCCAGTGTGCGGGAACGCTGTCTGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGTACCTCAAGGTGCTCAAGGTGGCCCGCTTCCATTGCAAGCGCATCGACGTGATCACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCTTCACTGGCGCCTTCCACGCTCTCAGCTTCCTGCTCCTTCGTCGTGCTCTGCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCTTCACTGGCGCCTTCCACGCTCTCAGCTTCCTGCTCCTTCGTCGTGCTGCTGCTGCA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; 190 C; 157 G; 118 T; 0 U;
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Pred. No. 1.1e-90;
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                                                     542
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468 946 408 886 348 826 288

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The invention relates to an isolated polymucleotide comprising any one of 38043 cDNA sequences, appearing as ACHI-2789-ACH50831, whose sequence was CC determined by the technique of SBH (sequencing by hybridisation). Also included is a purified polypeptide comprising a sequence corresponding to a reading frame of the novel polymucleotide. The nucleic acid sequences care useful in diagnostics as expressed sequence tags (EST) for identifying expressed genes or for physical mapping of the human genome, in forensics, in assessing biodiversities, or in identifying mutations cresponsible for genetic disorders and other traits. The nucleotide sequences are also useful as hybridisation probes, as oligomers for PCR, for chromosome and gene mapping, in the recombinant production of protein, or in generating antisense DNA or RNA. The purified polypeptide is useful for generating antisense DNA or RNA. The present sequence is one of the 38043 isolated CDNA/EST sequences. Note: The sequence data for this patent did not form part of the printed specification, but was considered in electronic format directly from USPTO at
                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polynucleotide sequences obtained from various cDNA libraries, useful as hybridization probes, as oligomers for PCR, for chromosome and gene mapping, in the recombinant production of protein, or in generating antisense DNA or RNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (LABA/)
(STAC/)
(DICK/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-JUL-2001; 2001US-00918995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               seqdata.uspto.gov/sequence.html?DocID=20030073623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID NO 26254; 44pp;
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                                                                                 647
                                                                                                                                   109
                              169
                                                                                                                                                                                                                                                                                                                                                     474;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) DRMANAC R T.
) LABAT I.
) STACHE-CRAIN B.
) DICKSON M C.
) JONES L W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ss; sequencing by hybridisation; SBH; expressed sequence tag; EST, mapping; biodiversity; genetic disorder.
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                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                    TCCACGCTCTCAGCTTCCTGCTCCTTCGTCGTGCTCTGCTGCACGTACCTCAAGGTGC
                                                          TGCTGGTGGACCTGCACCCCAGTGTGCGGGAACGCTGTCTGGAGGAGCAGAAGCGGAGGC
                                                                                                                                   TCAAGGTGGCCCGCTTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTCGTGC
                                                                                                                                                                     TCAAGGTGGCCCGCTTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTGGTGC
                                                                                                                                                                                                                                             TCCACGCTCTCAGCTTCCTGCTTCGTCGAGCTCTGCTGCACGTACCTCAAGGTGC
                              TGCTGGTGGACCTGCACCCCAGTGTGCGGGAACGCTGTCTGGAGGAGCAGAAGCGGAGGC
                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         B₽;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         118 A; 182 C; 161 G; 118
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                                                                                                                                                                                                                                                                                                                                                  Score 472.2;
Pred. No. 1.4e
0; Mismatches
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1.4e-75;
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RESULT 13
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10-APR-2000;
28-APR-2000;
12-MAY-2000;
12-JUN-2000;
12-JUN-2000;
21-AUG-2000;
26-SEP-2000;
                                                                                                                                                                                                                                                               14-MAR-2000;
10-APR-2000;
10-APR-2000;
                                                                                                                                                                                                                                                                                                                                     23-DEC-1999;
23-DEC-1999;
23-DEC-1999;
11-FEB-2000;
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17-NOV-1999;
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                                    ARENA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCCATCCACTCTCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGG 1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGGTGCTGTCCAAGTGCTTGGCGTACAGCAAGGCCGCATCCGACCCCTTTGTGTACTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTATGTGATCACCAGGCTAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCACTGGG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     encoding G-protein coupled receptor,
                                                                    2000US-0181749P
2000US-0189258P
2000US-0195898P
2000US-0195899P
2000US-0195899P
2000US-0200419P
2000US-0200419P
2000US-0210741P
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2000US-024331P
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                                    PHARM INC
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Best Local S
Matches 624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The sequence encodes a human G-protein coupled receptor (GPCR), hRUP23. The endogenous and non-endogenous, constitutively activated versions of human G-protein coupled receptors (GPCR), are useful for direct identification of candidate compounds as receptor agonists, inverse agonists or partial agonists having applicability as therapeutic agents for treating diseases related to GPCR, e.g. lung cancer. Non-endogenous version of human GPCRs are also utilized in research settings and in vivo system, incorporating GPCRs can be utilised to elucidate and understand the roles these receptors play in the human condition, both normal and diseased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Endogenous and non-endogenous versions of human G-protein coupled receptors for direct identification of candidate compounds as agonists, inverse agonists or partial agonists for use as therapeutic agents.
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Similarity 64.5%;
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CACCCCAGTGTGCGGGAACGCTGTCTGGAGGAGCAGAAGCGGAGGCGACAGCGAGCCACC
                                                                                                                                TTCCTGCTCCTTCGTCGTGCTCCTGCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
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                                                   AGCCACTGCCAGCGCATGGACACCGTCACCATGAAGGCGCTCGCGCGCTCGCCGACCTG
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                                                                                                                                                                           CCGCCCGAGCCTGAGCGTCCGCGCTTCGCAGCCTTCACCGCCACGCTCCATGCCGTGGGC
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Pred. No. 6.8e-66;
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                                                                     The invention relates to G protein-coupled receptor (GPCR) polypeptides and the polynucleotides encoding them. The GPCR polypeptides are useful for preparing a composition for identifying compounds as receptors, inverse agonists or partial agonists, having potential applicability as therappeutic agents. This sequence represents human GPCR cDNA of the
                                                                                                                                                                                                                                                                                       New G protein-coupled receptor (GPCR), useful for preparing a compo for identifying compounds as receptors, inverse agonists or partial agonists having potential applicability as therapeutic agents.
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16-NOV-2000;
                                                                                                                                                                                                                                           Example 1;
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DB; ADL96478.
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2000US-00714008
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Query Match Best Local Sim Matches 624;

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RESULT 15 ABZ24430 ID ABZ24

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Best Local Sin Matches 623; Query Match

Similarity

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The present sequence is that of cDNA encoding the novel human coupled receptor that is expressed predominantly in the brain and coupled receptor that is expressed predominantly in the brain and coupled receptor that is expressed predominantly in the brain and coupled receptor that is expressed predominantly in the brain and coupled receptor that is expressed predominantly in the brain and coupled the place of producing coupled the polypeptides and for detecting the nucleic acids. Also claimed are: a method for identifying a compound that binds to hCAR protein; a method coupled for modulating the activity of the protein; a method for treating a compound that binds to hCAR protein; a method coupled the need for inhibition of hCAR activity; a transgenic, chimeric, or knockout non-human animal comprising the present sequence; and a method for inhibiting expression of the hCAR gene. The invention coupled a method for inhibition of hCAR gene. The invention coupled a method for inhibition and delivery of hCAR protein by gene coupled the production and delivery of hCAR protein by gene coupled the production and delivery of hCAR protein by gene coupled to the production and tissue typing. An hCAR coupled can be used to treat a disease or disorder associated with abnormal or aberrant hCAR protein activity or hCAR nucleic acid continued to treat a disease or disorder associated with a continued to treat a disease or activity or hCAR nucleic acid disease or activity or hCAR nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human Constitutively Active Receptor (hCAR) gene, useful for preparing a composition for treating disorders associated with aberrant hCAR protein activity or hCAR nucleic acid expression, e.g., tumor or
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0	481 CGGCGGCAGACGAGCGCCTGCGCTTCGCCGTTTCACTGGCGCCTTCCACGCTCTCAGC 540
71	421 GCGCTCGCCCTGTCCTGGCTCGGCTTCCACCAGCTGTACGCCTCGTGCACGCTGTGCAGC 480
11	361 CGCGACGCGGCTCATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCAGCCGCC 420
60	301 AGCATCGACCGCTGGGTGGCCGTGGTCTTCCCGCTGAGCTACCGGGCCAAGATGCGCCTC 36
191	241 CTGGCTGCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGGCTC 30
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1 atgaactcgtgggacgcggg.....ttctgccggtgtctgagtga 1014
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	415	415	415	415	416.6	416.6	418.2	456.2	579	589.6	668.6	868.4	868.4	967.4	1006.2	1009.2	1010.8	1011	1014	Score
	40.9	40.9	40.9	40.9	41.1	41.1	41.2	45.0	57.1	58.1	65.9	85.6		95.4	99.2	99.5	99.7	99.7	100.0	Query
	1092	1092	1092	1029	1352	1092	1092	525	68539	162502	196808	1172	1172	969	1011	2581	7512	1011	1014	Query Match Length DB
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	AX168152	AX148254	AX085586	CQ716319	AX592450	AX592452	AX148190	AY255585	AC099826	AC105062	AC009987	AF208288	CQ831053	CQ729494	BD130532	BD130531	HSA505757	CQ831051	CQ831055	ID
	AX168152 Sequence	AX148254 Sequence	AX085586 Sequence	CQ716319 Sequence	AX592450 Sequence	AX592452 Sequence	AX148190 Sequence	AY255585 Mus muscu	AC099826 Papio ham	AC105062 Mus muscu	AC009987 Homo sapi	AF208288 Rattus no	CQ831053 Sequence	CQ729494 Sequence	BD130532 Ligand re	BD130531 Ligand re	AJ505757 Homo sapi	CQ831051 Sequence	CQ831055 Sequence	Description

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	8	ממ	γQ	DЪ	Q	дb	Q	Query Match Best Local Matches 101	ORIGIN		source	FEATURES	0000	TITLE	AUTHORS	REFERENCE		ORGANISM	SOURCE	VERSION	ACCESSION	LOCUS	RESULT 1 CQ831055
CGGCTCACGCTGGCCGGCGTCGTCGCCGAGCCGGCCGGCC	181 CCGCTCACGCTGGCCGGCGTCGTGGCGCAGCGGCAGCCGGCGGCGACCGCCTGTGCCGC 240	121 CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCCGTGGTCAACATG 180	121 CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCGTGGTCAACATG 180	61 CTGTCCAACGCGCTGGTGCTCTGCTTGCACAGCGCGGACATCCGCCGGCCAGGCG 120	61 CTGTCCAACGCGCTGGTGCTCTGCTGCTGCACAGGCGCGGACATCCGCCGCCAGGCG 120	1 ATGAACTCGTGGGACGCGGCCTGGCGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG 60	1 ATGAACTCGTGGGAGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG 60	Match 100.0%; Score 1014; DB 6; Length 1014; Local Similarity 100.0%; Pred. No. 7e-124; es 1014; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	/ day	/organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="raxon:9606"	11014	Location/Qualif	F. HOFFMANN-LA ROCHE AG (CH)	GPCR gene 115 fo	•		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia: Eutheria: Primates: Catarrhini: Hominidae: Homo.	Homo sapiens	Homo sapiens (human)	CQ831055.1 GI:50831180	sequence 5 from Fatent BF143/595. CO831055	1	

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Sequence 1 from CQ831051
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                      Goodnow,J.R., Mark,D.F., Martin,M.L. and Rosinski,J.A. Orphan GPCR gene 115 for obesity indication Patent: EP 1437595-A 1 4-JUL-2004; F. HOFFMANN-LA ROCHE AG (CH)

Location/Qualifiers
                                                                                                                           Mus
                                                                                                  Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
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 /organism="Mus
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  TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAG
                           AGGCTAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCACTGGGGGGGTGCTGTCCAAG
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GPR26 gene; orphan G pro
Homo sapiens (human)
Homo sapiens
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Direct Submission
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The 10q25.3-26.1 gene en
receptor GPR26 is epigen
                                                                                                                                                                                         Similarity
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3 (bases 1 to
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Mammalia; Eutheria;
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CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCGTGGTCAACATG
                                                                                                                            ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG
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                                                                                                                                                                        Conservative
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/Codon_start=1
/product="putative orphan G protein-coupled receptor 26"
/product="putative orphan G protein-coupled receptor 26"
/protein_id="CAD44281.1"
/db_xref="GOA:Q8NDV2"
/db_xref="GOA:Q8NDV2"
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/translation="MNSWDAGLAGLLVGTMGVSLLSNALVLLCLLHSADIRRQAPALF
/translation="MNSWDAGLAGLLVGTMGVSLLSNALVLLSNLSMAALSI
DRWVAVVFPLSYRAKMFLTAAGTVAQRQPAGDBLCRLAAFLDTFLAANSMLSMAALSI
DRWVAVVFPLSYRAKMFLTDAALMVAYTWLHALTFPAAALALSWLGFHQLYASCTLCS
RRPDERLRPAVFTGAFHALSFLLSFVVLCCTYLKVLKVARFHCKRIDVITMQTLVLLV
DLHPSVRERCLEEQKRRRQRATKKISTFIGTFLVCFAPYVITRLVELFSTVPIGSHWG
VLSKCLAYSKAASDPFVYSLLKHQYRKSCKEILNRLLHRRSIHSSGLTGDSHSQNILP
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/mol_type="mRNA"
/db_xref="taxon:9606"
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'dev_stage="foetus"
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JP 2002501083-A/1.
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Glucksmann,A.M. and Robison,K.

Ligand receptors and utilization there
Patent: JP 2002501083-A 1 15-JAN-2002;
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Best Local Sim
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OS Unidentified
PN JP 2002501083-A/1
PD 15-JAN-2002
PD 20005285
PF 20-JAN-1999 JP 20005285
PF 26-JAN-1998 US 09/01
PI ALEXANDRA M GLUCKSMANN,
PC C07K14/705, C07K16/28, C1
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PC C12N5/C
CC Strande
CC Topolog
CC Ligand
FH Key
FT CDS
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                                                                                                                                                                                                                                                                             AGCATCGACCGCTGGGTGGCCGTGGTCTTCCCCGCTGAGCTACCGGGCCAAGATGCGCCTC
                                                                                                                                                                                                                                                                                                                      CTGGCTGCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCCTC
                                                                                                                                                                                                                                                                                                                                                      CCGCTCACGCTGGCCGCGTCGTGGCGCGCCGCCAGCCGGCGGCGACCGCCTGTGCCGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGAACTCGTGGGACGCCGGGCCTGGCGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG
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                                                                                                                                                                                                                                 CGCGACGCGCCCTATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCAGCCGCC
           TTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTGGTGCTGCTGGTGGACCTG
                                                                                                TTCCTGCTCTCCTTCGTGCTCCTGCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
                                                                                                                                             CGGCGGCCAGACGAGCGCCTGCGCTTTCGCCCGTCTTCACTGGCGCCTTTCCACGCTCTCAGC
                                          TTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTCGTGCTGCTGGTGGACCTG
                                                                                     TTCCTGCTCTCCTTCGTGCTGCTGCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
                                                                                                                                CGGCGGCCGGACGACGCCTGCGCTTTCGCCGTCTTCACTGGCGCCTTTCCACGCTCTCAGC
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26-JAN-1998 US 09/013634
ALEXANDRA M GIUCKSMANN, KEITH ROBISON
CO7K14/705,CO7K16/28,C12N5/10,C12N15/09,C12P21/02,C12Q1/68,
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Strandedness: Single;
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Ligand receptors a
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptors and utilization thereof
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Pred. No. 2.3e-123;
0; Mismatches 3;
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Ligand re
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                                                                                                                                              Similarity
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CACCCCAGTGTGCGGGAACGCTGTCTGGAGGAGCAGAAGCGGAGGCGACAGCGAGCCACC

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Ligand receptors and utilization thereof Patent: JP 2002501083-A 2 15-JAN-2002;
MILLENNIUM PHARMACEUTICALS INC
OS Unidentified
PN JP 2002501083-A/2
PN 15-JAN-2002
PP 20-JAN-1999 JP 2000528599
PP 20-JAN-1999 JP 2000528599
PR 26-JAN-1998 US 09/013634
PI ALEXANDRA M GLUCKSMANN, KEITH ROBISON
PC C07K14/705, C07K16/28, C12N5/10, C12N15/09, C12P21/02, C12Q1/68,
G01N33/53,
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JP 2002501083-A/2.
unidentified
unidentified
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Glucksmann, A.M. and Robison, K.
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CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCGTGGTCAACATG 180
                                                     CTGTCCAACGCGCTGCTGCTCTGCCTGCTGCACAGCGCGGACATCCGCCGCCAGGCG
                                                                       | CTGTCCAACGCGCTGGTGCTGCTGCTGCTGCACAGCGCGGACATCCGCCGCCAGGCG
                                                                                                                                              ATGAACTCGTGGGAACGCCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG
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                                                                                                                                                                                                                                                                                                                                                                             Topology: Linear;
Ligand receptors and utilization the Ligand receptors and utilization the Key Location/Qualifiers CDS
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                                                                                                                                                                                                                                                                                 /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
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Location/Qualifiers
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                                                                                                                                                                                               Score 1006.2;
Pred. No. 7.4e
0; Mismatches
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7.4e-123;
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       Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W. Kits, such as nucleic acid arrays, comprising a majority of humanexons or transcripts, for detecting expression and other uses
                                                                       Homo
                                                                                                    CQ729494 969 bp DNA Sequence 15428 from Patent WOO2068579. CQ729494 GI:42300819
                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                     TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAG
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Patent: WO 02068579-A 15428 v
PE Corporation (NY) (US)
Location/Qualifiers
                                               CCCTATGTGATCACCAGGCTAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCACTGG
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                   TTACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTGCACAGA
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       TTACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTGCACAGA
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nilarity 99.9%;
Conservative
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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(US)
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Pred. No. 9.2e-118;
0; Mismatches 1;
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CQ831053
CQ831053.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
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             | CGGCGGCCAGACGAGCGCCTGCGCCTTCGCCGTCTTCACTGGCGCCTTTCCACGCTCTCAGC
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                                                         GCGCTCGCCCTGTCCTGGCTCGGCTTCCACCAGCTGTATGCCTCGTGCACGCTGTGCAGC
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/mol_type="unassigned DNA"
/db_xref="taxon:10116"
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Pred. No. 8.4e-105;
0; Mismatches 91;
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                                                                                                                                                                        2 (bases 1 to 1172)
Liee, D.K., Lynch, K.R., Nguyen, T.,
Liu, Y., Liu, I.S.C., Heng, H.H.Q.,
O'Dowd, B.F. and Marchese, A.
Direct Submission
                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 1172)
Lee,D.K., Lynch,K.R., Nguyen,T., Im,D.S., Cheng,R.,
Liu,Y., Liu,I.S., Heng,H.H., Seeman,P., George,S.R.,
and Marchese,A.
                                                                                                                               Submitted (25-NOV-1999) Pharmacology, Un
Jefferson Park Avenue, Charlottesville,
Location/Qualifiers
                                                                                                                                                                                                                                                                           Cloning and characterization of additional members protein-coupled receptor family Biochim. Biophys. Acta 1490 (3), 311-323 (2000)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae;
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Rattus norvegicus
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                               1. .1172
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George, S.
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, O'Dowd, B.F
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; Murinae;
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GPR26 (GPR26)
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                                   AGGCTAGTGGAGCTCTTCTCCACGGTGCCCCATCGGCTCCCACTGGGGGGTGCTGTCCAAG
                                                                                                                                                                                    AAGAAGATCAGCACCTTCATAGGGACCTTCCTTGTGTGCTCCTCCCCCCTATGTGATCACC
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Pred. No. 8.4e-105;
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Street, Waltham, MA 02453, USA
On Apr 20, 2002 this sequence version replaced gi:1892126
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (26-FEB-2002) Genome Street, Waltham, MA 02453, USA 5 (Dases 1 to 196808) Smith, D.R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (20-FEB-2002) Genome Street, Waltham, MA 02453, USA
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3 (bases 1 to 196808)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Smith, D.R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
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                                                                                                                                                                                              ATGAACTCGTGGGACGCGGGCCTGGCGGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG
                                                                                    cTGTCCAACGCGCTGGTGCTGCTGCTGCTGCACAGCGCGGACATCCGCCGCCAGGCG
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/mol type="genomic DNA"
/db xref="taxon:9606"
/chromosome="10"
/clone="RP11-391M7"
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                                                                                                                                                                                                                                                                                          Score 668.6; DB 9;
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0; Mismatches 9;
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Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N., Baliren, B., Linton, L., Bastien, V., Boguslavkiy, L., Boukhgalter, B., Anderson, S., Barna, N., Bastien, V., Boguslavkiy, L., Boukhgalter, B., Brown, A., Camarata, J., Campopiano, A., Chang, J., Chazaro, B., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cook, A., Cooke, P., Patzellano, K., Dewar, K., Diaz, J. S., Dodge, S., Faro, S., Ferreitz, P., Fitzhugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., LaRocque, K., Lamazares, R., Landers, T., Lehoczky, J., Levine, R., Liu, G., MacChan, C., Macdonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McPheeters, R., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Ngyyen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phurkhang, P., Pierre, N., Pollara, V., Raymond, C., Retta, R., Rieback, M., Riley, R., Rise, C., Rogov, P.,
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Mus musculus chromosome 7, clone RP24-528E17, complete sequence.
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Mus musculus chromosome 7, clone RP24-528E17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unpublished
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (house mouse)
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Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N., Anderson, M., Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavkiy, L., Boukhgalter, B., Camarata, J., Chang, J., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., DeArellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagos, B., Hall, J., Horton, L., Hulne, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Maccarthy, M., Meldrim, J., Manning, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Mlenga, V., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Menga, V., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.
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D., Ye,W.J., Young,G.,
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Direct Submission

AL Submitted (22-APR-2004) Whitehead Institute/MIT Center for Genome Submitted (22-APR-2004) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA CE 4 (bases 1 to 162502)

Birren, B., Nusbaum, C., Lander, E., Abouelleil, A., Allen, N., Bastien, V., Anderson, M., Anderson, S., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavkiy, L., Boukhgalter, B., Camarata, J., Chang, J., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Erickson, J., Faro, S., Ferreira, P., FitzGerald, M., Gage, D., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Levine, R., Lindblad-Toh, K., Liu, G., Liu, X., Lui, A., Mabbitt, R., MacLean, C., Macdonald, P., Major, J., Manning, J., Mathews, C., Murphy, T., Naylor, J., Mayor, J., Manning, J., Mathews, C., Murphy, T., Naylor, J., Mayyen, C., Nguyen, T., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassillev, H., Venkataraman, V.S., Viel, R., Direct Suhmission Zimmer, A. and Zody Direct Submission

Submitted (26-JUN-2004) Whitehead Institute/MIT Center for Research, 320 Charles Street, Cambridge, MA 02141, USA On Jun 26, 2004 this sequence version replaced gi:46485957. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997)

http://ftp.genome.washington.edu/RM/RepeatMasker.html Center code: WIBR Web site: http://www-seq.wi.mit.edu Center: Whitehead Institute/MIT Center for Genome Research

Contact: sequence_submissions@broad.mit.edu

Center project name: 52 Location/Qualifiers

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/rpt family="MER33"
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complement (11715. .11855)
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11989. .12023
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/rpt_family="MTC"
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/mol_type="genomic DNA"
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204. .1255
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/rpt_family="MIR"
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26840. .26974
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                            Direct Submission
Submitted (30-JUL-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA On Jul 30, 2002 this sequence version replaced gi:17047165.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
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Submitted (22-NOV-2001) Whitehead Institute/MIT Center for Genome
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Birren,B., Nusbaum,C. and Lander,E.
Papio hamadryas, clone RP41-76M19
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Hagos, B., Heaford, A.,
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contigs. Runs of N are used to separate the reads and the order in which they appear is completely arbitrary. Low-pass sequence sampling is useful for identifying clones that may be gene-rich and allows overlap relationships among clones to be deduced. However, it should not be assumed that this clone will be sequenced to completion. In the event that
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------ Project Information
Center project name: L12534
Center clone name: 76_M_19
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	CDS	FEATURES source	-	AUTHORS	TITLE JOURNAL REFERENCE	AUTHORS	REFERENCE	KEYWORDS SOURCE ORGANISM	RESULT 12 AY25585 LOCUS DEFINITION ACCESSION	Db 11:	Q	Оу 0b 11	ф 11	11	&	Qy 11	Db 11	11	\$. Db 11	Ş	_	§
/ COUNTED FOR THE PROPERTY OF	/organism="mus musculus" /mol_type="manua" /db_xref="taxon:10090" <1>525	Location/Qualifiers 1525	Direct Submission Submitted (14-MAR-2003) Primal, Inc., 1124 Columbia Street, Seattle, WA 98104, USA	Vassilatis,D.K., Hohmann,J.G., Zeng,H., Li,F., Ranchalis,J.E., Mortrud,M.T., Brown,A., Rodriguez,S.S., Weller,J.R., Wright,A.C., Bergmann,J.E. and Gaitanaris,G.A.	The G Protein-Coupled Receptor Repertoires of Human and Mouse Proc. Natl. Acad. Sci. U.S.A. 100 (8), 4903-4908 (2003) 2 (bases 1 to 525)	Vassilatis,D.K., Hohmann,J.G., Zeng,H., Li,F., Ranchalis,J.E., Mortrud,M.T., Brown,A., Rodriguez,S.S., Weller,J.R., Wright,A.C., Beromann I R and Gaitanaris G A	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 525)	AIZ33303.1 GI:A96117/1 . Mus musculus (house mouse) Mus musculus	AY255585 Mus musculus G proteir AY255585	922 GCTTCCATTGCAANGCGCATCGACGTGATCA 11952	599 GCTTCCATTGCAA-GCGCATCGACCGTGATCA 628	541 TTCCT-GCTCCTTCGTCGTGCTGCTGCTGCACGTACCTCAA-GGTGCTCAAGGTGGCCC 598	481 CGGCGGCCAGACGAGCGCCTGCGCTTTCGCCGTCTTCACTGGCGCCTTTCACGCGCTCTCAGC 540	742	421	361 CGCGACGCGGCGCTCATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCAGCCGCC 420	301 ASCATICACUSCISGETGECCGIGGETETTCCCGCTGAGCTACCGGGCCAAGATGCGCCTC 360	CTGGCTGCCTTCCTCGACACCTTCCTGGCGGCCAACTCCATGCTCAGCATGGCCGCACTC 11	241 CTGGCTGCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCCGCTC 300		181 CCGCTCACGCTGGCCGGCGTGGTGGCGCAGCGGCAGCCGGCCG	\mathbf{r}	121 CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGTGCACCGTGGTCAACATG 180

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Arena Pharmaceuticals, Inc. (US)
Location/Qualifiers
                                                                                                                                                             Chen,R., Dang,H.T. and Lowitz,K.P. Endogenous and non-endogenous versions
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Mammalia; Eutheria;
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Pred. No. 1.5e-45;
0; Mismatches 344
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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TCAGGCGTCCTCGTGAATCTGTCGCTGGGCCACCTGCTGCTGGCGGCGCTGGACATG
                                                                                              ATGGGCCCCGGCGAGGCGCTGCTGGCGGGTCTTCTGGTGATGGTACTGGCCGTGGCGCTG
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LYNLSIGHLLLAALDMPFTLLGVMRGRTPSAPGACQVLGFTDTFLASNAALSVAALSA
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DLHPSYRQRCLIQOKKRRHRATRKIGIAIATFLICFAPYMTKLAELVPFVTVNAQWG
ILSKCLTYSKAVADPETYSLLRAFPRQVLAGMVHRLLKRTPRPASTHDSSLDVAGMVH
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/db_xref="taxon:9606"
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/codon_start=1
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                                                                            TACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTGCACAGACGCTCCACTCCACTCC 960
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        AL266783 Tetraodon
AL182059 Tetraodon
CB521501 UI-M-GH0-
AL173269 Tetraodon
AL123985 Fugu rubr
AL253255 Tetraodon
BY725178 BY725178
AL9737 Danio rer
BB628814 BB628814
CD217604 pgrln.pk0
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AX036100 Mus muscu
AY420107 Mus muscu
AY420106 Pan trogl
CO934052 AGENCOURT
CO934490 AGENCOURT
CO934461 AGENCOURT
AX042755 Mus muscu
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BH118705 RPCI-24-3
AL262296 Tetraodon
T09060 EST06953 In
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975	803	697	2020	1038	908	1548	903	925	732	853	721	1100	1113	906	890	889	815	569	855	747	
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ALIGNMENTS

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Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A., Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B., Ferriera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J., Adams,M.D. and Cargill,M.
Direct Submission Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 963)

1 (Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M. Homo sapiens (human) genomic survey sequence. AY420105 Similarity Rockville, MD 20850, Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive Science 302 (5652), 1960-1963 (2003) gene trios Inferring nonneutral evolution from human-chimp-mouse orthologous AY420105.1 GI:39776062 Homo sapiens HCM7113 gene, AY420105 14671302 sequence as made by sequencing genomic exons and ordering them d on alignment. Conservative /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" <1._.>963 1. .963 Location/Qualifiers /locus_tag="HCM7113" 94.8**%**; 99.9**%**; USA 0 Score 961.4; DB 9; Pred. No. 1.2e-191; 0; Mismatches 1; 963 bp DNA linear GSS 12-DEC-2003, VIRTUAL TRANSCRIPT, partial sequence, Length °. Gaps 60

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                      AK036100 2802 bp mRNA linear HTC 03-APR-2004 Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630036A11 product:ORPHAN G PROTEIN-COUPLED RECEPTOR GPR26 homolog [Rattus norvegicus], full insert sequence.
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                                                                                                                                                                                     Direct Submission
Submitted (16-UUL-2001) Yoshihide Hayashizaki, The Institute of Submitted (16-UUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokoha RIKEN Yokohama 130-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL:http://genome-gsc.riken.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
                                                                                                                                                                                                                                                                                                                                                                            Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N. Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N. Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N. Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takahashi, F., Takaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M., and Hayashizaki, Y.
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Analysis of the mouse transcriptome based of 60,770 full-length cDNAs
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Please visit our web site for further
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Sciurognathi; Muridae;
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Murinae; Mus
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   TTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTGGTGCTGCTGGACCTG
                                       TTCCTGCTCCTTCATCGTGCTCTGCTTCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
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/db_xref="G1:26331150"
/db_xref="G1:26331150"
/translation="masswdagiagilvgtigvsllsngivllcllhsadirrqapalf-
/translation="masswdagiagilvgtigvsllsngivllcthaansnlsnlsnaaris-
TLNLTCGNLLCTVVNMPLTLAGVVAQRQPAGDRLCRLAAFLDTELAANSNLSMAALSI
DRWAAVVFPLSYRAKNELRDAAFMVAYTMLHALTFPATALASMLGFHQLYASCTLCS
RRPDERLRFAVFTSAFHALSFILSFIVLCFTYLKVLKVAFALSHIDVITMQTLVLLV
DIHPSVRERCLEGQKRRRQRATKKISTFIGTFILVCFAFVVITRLVELFFTAFIGSHMG
ULSKCLAYSKAASDPFVYSLLRHQYRRSCKELLNRIFNRRSLHSVGLTGDSHSQNILP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note="unnamed protein product; ORPHAN G PROTEIN-COUPLED RECEPTOR GPR26 homolog [Rattus norvegicus] (SPTR|Q9QXI3, evidence: FASTY, 99.4%ID, 100%length, match=1011)
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472. .1485
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/clone_lib="RIKEN full-length enriched
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /strain="C57BL/6J"
/db_xref="FANTOM_DB:9630036A11"
/db_xref="taxon:10090"
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mol_type="mRNA"
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Pred. No. 1e-172;
0; Mismatches 89;
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                                   al Similarity
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Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejariwal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
                                                                                                                                                                                                                                                                                      Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA
                                                                                                                                                                                                                                                                                                                      Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A., Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B., Ferriera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J., Adams,M.D. and Cargill,M.
Direct Submission
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Science 302 (5652), 1960-1963 (2003)
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GTCTCGCTGCTGCTACCGCGCTGGTGCTGCTCTGCCTGCACAGCGCGGACATCCGC
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                                     Conservative
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                                                                                                                      /locus_tag="HCM7113"
                                                                                                                                           /organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
<1...>963
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91.1%;
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                                 Score 825.4; DB 9;
Pred. No. 4.7e-163;
0; Mismatches 86;
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Inferring nonneutral evolution from human-chimp-mouse orthologous
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/mol_type="genomic DNA"
/db_xref="taxon:9598"
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Pred. No. 1e-106;
0; Mismatches 107;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cDNA Library Preparation: GPCR Consortium (LLNL) CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bloscience Corporation Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov column: 08 Plate: IRBIG row: c column: 08 High quality sequence stop: 607.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Daniela S. Gerhard, Ph.D. Office of Cancer Genomics
National Cancer Institute / NIH Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: GPCR Consortium
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AGENCOURT 30488535 NIH MGC 145 Homo sapiens cDNA clone
IMAGE 7262026 5', mRNA sequence.
C0934052
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NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                         ATGAACTCGTGGGACGCGGGCCTGGCGGGCTACTGGTGGGCACGATGGGCGTCTCGCTG 60
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                                                                                                                                                                                          /clone lib="NIH MGC 145"
/rote="Vector: pcDNA3.1; Site 1: varies by clone; Site 2: varies by clone; ORPs were PcR-amplified and cloned into pcDNA3.1 by the GPCR Consortium. Cloning sites vary by clone and include the following: 5'-EccRV-XmmI/XhoI-3', 5'-EccRV-XmmI/NotI-3', BccRV (TA cloned, non-directional). For information about which gene each clones represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRBI.preSV.dat a Note: this is a NIH_MGC Library."
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                                                                                                                                                                                                                                                                                                                                                                                                 /clone="IMAGE:7262026"
/tissue_type="mixed"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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                                                                                                                    53′.1%;
95.9%;
                                                                                               Score 538.8; DB 7;
Pred. No. 7.7e-103;
0; Mismatches 22;
                                                                                                                                    Length
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source
          Mammalia; Eutheria; Primates; Caniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

CE 1 (bases 1 to 736)

RS NHH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

AL Unpublished (1999)

AL Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics

National Cancer Institute / NIH

Bldg. 31 RmiJAN07 Bethesda, MD 20892

Email: cgapbs-r@mail.nih.gov

Tissue Procurrement: GPCR Consortium

CDNA Library Preparation: GPCR Consortium

CDNA Library Preparation: GPCR Consortium

CDNA Library Preparation: GPCR Consortium

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov

Plate: IRBIS row: c column: 08

High quality sequence stop: 600.

S Location/Qualifiers
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AGENCOURT 30488533 NIH MGC 145 Homo
TWAGE: 7211818 5', mRNA sequence.
CO934490
CO934490.1 GI:51289167
EST.
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540 495 480 435 420 375 360 315

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CO934461/c
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IMAGE:7211818 3', mRNA sequence.
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CO934461.1 GI:51289138
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/clone lib="NIH_MGC_145"
/note="Vector: pcDNA3.1; Site_1: varies by clone; Site_2:
varies by clone; ORFs were PCR-amplified and cloned into
pcDNA3.1 by the GPCR Consortium. Cloning sites vary by
clone and include the following: 5'-EcoRV-XmnI/XhoI-3',
5'-EcoRV-XmnI/NotI-3', EcoRV (TA cloned, non-directional).
For information about which genetach clones represents,
please visit our anonymous ftp site at
ftp://image.llnl.gov/image/rearrayed_plates/IRBI.preSV.dat
a Note: this is a NIH_MGC Library."
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/mol_type="mRNA"
/db_xref="taxon:9606"
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/lab_host="DH10B"
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Pred. No. 2.9e-99;
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Tissue Procurement: GPCR Consortium
cDNA Library Preparation: GPCR Consortium
cDNA Library Arrayed by: The I.M.A.G.E. Consortium
Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: IRBIS row: c column: 08
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Mational Institutes of Health, Mammalian
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 730)
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Bldg. 31 Rm10A07 Bethesda, MD 20892
                       CTTGTGTGCTTCGCGCCCTATGTGATCACCAGGCTAGTGGAGCTCTTCTCCACGGTGCCC
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quality sequence stop: 539.
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/clone lib="NIH MGC_145"
/note="Vector: pcDNA3.1; Site_1: varies by clone; ORFs were PCR-amplified and cloned into varies by clone; ORFs were PCR-amplified and cloned into pcDNA3.1 by the GPCR Consortium. Cloning sites vary by clone and include the following: 5'-EcoRV-XmmI/XhoI-3', 5'-EcoRV-XmmI/NotI-3', EcoRV (TA cloned, non-directional). For information about which gene each clones represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRBI.preSV.data Note: this is a NIH_MGC Library."
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/lab_host="DH108"
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Nature 420, 563-573 (2002)

6 (bases 1 to 1211)
Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, Pukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiracka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                      Group Phase I & II Team.
Analysis of the mouse transcriptome of 60,770 full-length cDNAs
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                                                                                                                                                                                  The FANTOM Consortium and the
                                                                                                                                                                                                                                                                             The RIKEN Genome Exploration Research Group Phase II Team and
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High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute c Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC RIKEN Yokohama Institute; 1-7-22 Suehiro-Cho, Tsurumi-ku, Yok Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             URL:http://genome.gsc.riken.jp/
URL:http://fantom.gsc.riken.jp/.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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CFTYLKVLKVARFHCKRIDVITMQTLVLLVDIHPSVNERCLEBQKRRRQRATKKISTF
IGTFLVCPAPVITHLVELFSTAPIGSHWGYLSKCLAYSKAASDPFVYSLLRHQYRRS
CKELLNRIPNRRSLHSVGLTGDSHSQNILPVSE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="unnamed protein product; ORPHAN G PROTEIN-COUPLED
RECEPTOR GPR26 homolog [Rattus norvegicus] (SPTR|Q9QXI3,
evidence: FASTY, 99.4%ID, 100%length, match=1011)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /tissue type="cerebellum"
/clone_Iib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="7 days neonate"
<1. \S84</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /codon_start=3
/protein_id="BAC31354.1"
/db_xref="GI:26335307"
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/mol_type="mRNA"
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/strain="C57BL/6J"
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xref="taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. Jim Lin, University of Iowa
CDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
CDNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution information can be found at
http://genome.uiowa.edu/distribution/mousefl.html
This clone was contributed by the Brain Molecular Anatomy Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 861)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, 1
Unpublished (1999)
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01-M-FY0-cfk-1-22-0-UI.rl NIH_BMAP_FY0 Mus musculus cDNA clone
IMAGE 6850823 5', mRNA sequence.
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Mammalia; Eutheria; Rodentia;
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/tissue_type="whole brain"
/dev stage="embryo 13.5,14.5,16.5,17.5dpc"
/lab_host="DH108 (TI phage resistant)"
/clone lib="NIH BMAP FYO"
/clone lib="N
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/clone="IMAGE:6850823"
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14; Conservative
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                                                                                                          CGGCGGCCGACGAGCGCCTGCGCTTTGCTGTNNCTCACAGCGCCTTCCATGCGCTCAGC
                                                                                                                                                                GCGCTCGCCTGTCCTGGCTCGGCTTCCACCAGCTATATGCCTCGTGCACACTGTGCAGC
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Pred. No. 3.4e-91;
0; Mismatches 54;
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ACCESSION VERSION SOURCE ORGANISM REFERENCE KEYWORDS COMMENT DEFINITION TITLE JOURNAL Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hiramoto, K., Hori, F., Tehli, Y., Ito, M., Kawai, J., Konno, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, Ohno, M., Okazaki, Y., Okido, T., Salto, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Takeda, Y., Tanaka, T., Toya, T., Muramatsu, M. and Hayashizaki, Y. RIKEN Mouse ESTs (Arakawa, T., et al. 2001)
Unpublished (2001)
Contact: Yoshihide Hayashizaki Bukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia; 1 (bases 1 to 703) Arakawa,T., Carninci,P., Fukud BB639955.1 EST. Laboratory for Genome Exploration Research Sciences Center(GSC), Yokohama Institute Mus musculus BB639955 musculus BB639955 BB639955 musculus (house mouse) 703 bp mRNA linear RIKEN full-length enriched, 7 days neona cDNA clone A730021D22 5', mRNA sequence GI:15401479 Craniata; Vertebrata; E Sciurognathi; Muridae; mRNA linear d, 7 days neonate Group, RIKEN Genomic Euteleostomi; EST 31-AUG-2001 cerebellum Mus Murinae;

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FEATURES
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                                                                                                                                                                                                                                 Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)

Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y. and Hayashizaki, Y.

Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

Yamanaka, I., Kiyosawa, H., Kondo, S., Saito, T., Shinagawa, A., Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K., Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K., Arakawa, T., Ishii, Y. and Hayashizaki, Y.

Mapping of 19032 mouse cDNAs on mouse chromosomes. J. Struct. Please visit our web site (http://genome.gsc.riken.go.jp) for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               further details.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e mouse tissues.
CTTCGTCGTGCTCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGCTTCCATTGCAA
                                                                               CGAGCGCCTGCGCTTCGCCGTCTTCACTGGCGCCTTCCACGCTCTCAGCTTCCTGCTCTC
                                                                                                                                                                 Institute of Physical and Chemical Research (RIKEN)
                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                  cerebellum"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib="RIKEN full-length enriched, 7 days neonate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="cerebellum"
/dev_stage="7 days neonate"
/lab_host="DH10B"
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                                                                                                                                                                                                      Score 480.8; DB 2;
Pred. No. 1.2e-90;
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                                                                                                                                                                                  library availability, please contact Pieter de Jong (pdejong@mail.cho.org). Clones may be purchased from BACPAC Resources (http://www.chori.org/bacpac/orderingframe.htm). BAC page: http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html plate: 359 row: A column: 9
                                                                                                                                                                                                                                                                                                                                                                       Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zhao,S., Nierman,W., Malek,J., Shatsman,S., A
Tsegaye,G., Geer,K., Krol,M., Shvartsbeyn,A.,
Russell,D., de Jong,P. and Fraser,C.M.
Mouse BAC End Sequences from Library RPCI-24
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RPCI-24-359A9.TV RPCI-24 Mus
                                                                                                                                             Seq primer: T7
Class: BAC ends.
                                                                                                                                                                                                                                                                                                                                      Tel: 301 838 0200 Fax: 301 838 0208
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished (1999)
Other_GSSs: RPCI-24-359A9.TJB
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                                                                                                                                                                                                                                                                                          Email: szhao@tigr.org
Clones are derived from the mouse BAC library RPCI-24.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Shaying Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Eutheria; Rodentia;
1 (bases 1 to 537)
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
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Akinret, B.,

Levins, M.,

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Tetraodon nigroviridis
Tetraodon nigroviridis
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Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Tetraodon.
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Tetraodon
                                                     Roest Crollius,H., Jaillon,O., Dasilva,C., Bouneau,L., Fisher,C. Bernot,A., Fizames,C., Wincker,P., Brottier,P., Quetier,F., Saurin,W. and Weissenbach,J.
Estimate of human gene number provided by genome-wide analysis using Tetraodon nigroviridis DNA sequence
Nat. Genet. 25 (2), 235-238 (2000)
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 Crollius, H.,
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Fizames,C., Fischer,C., Bouneau,L., Billault,A., Que Saurin,W., Bernot,A. and Weissenbach,J. Characterization and repeat analysis of the compact freshwater pufferfish Tetraodon nigroviridis Genome Res. 10 (7), 939-949 (2000)
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This sequence is a single read and was generated as scale clone-end sequencing project of the Tetraodon genome. For more information, please take a look at http://www.genoscope.cns.fr/Tetraodon.

Location/Qualifiers
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BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.
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EST00953 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBO55
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Adams,M.D., Soares,M.B., Kerlavage,A.R., Fields,C. and Rapid cDNA sequencing (expressed sequence tags) from a directionally cloned human infant brain cDNA library Nat. Genet. 4, 373-380 (1993)
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Mammalia; Eutheria;
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                                                                  CACAGACGCTCCATCCACT 958
                                                                                                            TACTCCTTACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTG
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primer: M13 Reverse
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|mol_type="mRNA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   scale clone-end sequencing project of the Tetraodon genome. For more information, please take a look at http://www.genoscope.cns.fr/Tetraodon.
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Estimate of human gene number provided by genome-wide analysis using Tetraodon nigroviridis DNA sequence

NAT. Genet. 25 (2), 235-238 (2000)
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This sequence is a single read and was generated as
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|mol_type="genomic DNA"
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           Submitted (12-APR-2000) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : seqref@genoscope.cns.fr - Web : www.genoscope.cns.fr)
This sequence is a single read and was generated as part of a large scale clone-end sequencing project of the Tetraodon nigroviridis genome. For more information, please take a look at http://www.genoscope.cns.fr/Tetraodon.
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/mol type="genomic DNA"

/db xref="taxon:99883"

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Search completed: July 5, 2005, 15:56:12
Job time : 3911 secs

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1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*

2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*

3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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Copyright (c) 1993 - 2005 Compugen Ltd.
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9 US-10-735-991-1
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                                                                                TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAGTGA 1014
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Publication No. US20040121395A1

GENERAL INFORMATION:
APPLICANT: GOODNOW, Jr., Robert Alan
APPLICANT: MARK, David Pu-Chi
APPLICANT: MARK, David Pu-Chi
APPLICANT: MARK, David Pu-Chi
APPLICANT: MARK, James Andrew
TITLE OF INVENTION: Sequence #115 as a targe
TITLE OF INVENTION: compounds
FILE REFERENCE: 21366

FILE REFERENCE: 21366

FULL REFERENCE: 21366

CURRENT APPLICATION NUMBER: US/10/735,991

CURRENT APPLICATION NUMBER: US/0/436,375

PRIOR APPLICATION NUMBER: US/0/35,991

NUMBER OF SEQ ID NOS: 6

SOPTWARE: Patentin version 3.2

SEQ ID NO 1

LENGTH: 1011
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Best Local Similarity
Matches 1011; Conserv
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LOCATION: (1)..(1011)
OTHER INFORMATION: CHR7-36867
-10-735-991-1
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                  TTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTGGTGGTGGTGGTGGACCTG
                                                                               TTCCTGCTCTCCTTCGTGCTCTGCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
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PRIOR APPLICATION NUMBER: US 60/499,594
PRIOR APPLICATION NUMBER: US 60/506,332
PRIOR FILING DATE: 2003-09-26
NUMBER OF SEQ ID NOS: 136
SOFTWARE: FASCEQ for Windows Version
SEQ ID NO 129
LENGTH: 2530
TYPE: DNA
                                                                                                                                                               FILE REPERENCE: MPIO3-007PIRNOMNIM
CURRENT APPLICATION NUMBER: US/10/757,262
CURRENT PILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: US 60/440,318
PRIOR APPLICATION NUMBER: US 60/444,783
PRIOR FILLING DATE: 2003-02-04
PRIOR FILLING DATE: 2003-02-04
PRIOR FILLING DATE: 2003-02-04
PRIOR PILLING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 60/457,901
PRIOR APPLICATION NUMBER: US 60/468,775
PRIOR APPLICATION NUMBER: US 60/471,614
PRIOR FILLING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 60/478,742
PRIOR PRILING DATE: 2003-05-19
PRIOR APPLICATION NUMBER: US 60/478,742
PRIOR PRILING DATE: 2003-07-18
PRIOR PRILING DATE: 2003-07-18
PRIOR PRILING DATE: 2003-07-30
PRIOR APPLICATION NUMBER: US 60/491,156
PRIOR PRILING DATE: 2003-07-30
PRIOR APPLICATION NUMBER: US 60/499,594
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Silos-Santiago, Inmaculada
APPLICANT: Eliasof, Scott D.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
TITLE OF INVENTION: UNCLOCICAL DISORDERS USING 44390, 54181, 211, 5687, 884,
TITLE OF INVENTION: 1405, 636, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 44373, 51164,
TITLE OF INVENTION: 53010, 16852, 1587, 2207, 22245, 2387, 52908, 69112, 14990,
TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 8675,
TITLE OF INVENTION: 2158, 8263, 15402, 16816, 11827, 32620, 577, 619, 1423,
TITLE OF INVENTION: 2543, 9626, 13231, 32409, 84260, 2882, 8203, 32678 OR
TITLE OF INVENTION: 55053
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ORGANISM: Homo sapiens
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Best Local
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NAME/KEY:
LOCATION:
FEATURE:
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Pred. No. 4.9e-252;
0; Mismatches 3;
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SEQUENCE DESCRIPTION: SEQ
US-09-742-732-1
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US-09-742-732-1
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Patent No. US20020055137A1
GENERAL INFORMATION:
APPLICANT: M. Alexandra Glucksmann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                  Matches 1011;
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APPLICATION NUMBER: US/09/742,732
FILING DATE: 20-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 09/175,983
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear MOLECULE TYPE: cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
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REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
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                                                                        CCGGCGCTCTTCACCCTGAACCTCACGTGCGGGAACCTGCTGCTGCACCGTGGTCAACATG 180
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STRANDEDNESS: single
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STATE: Massachusetts
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                                                                                                                                                                                                                                               Score 1009.2; DB 9; Pred. No. 4.9e-252; 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                       ID NO:
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                                                                                                                                                                                                                                                                                     RESULT 5
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Publication No. US20050079550A1
Publication No. US20050079550A1
GENERAL INFORMATION:
APPLICANT: M. Alexandra Glucksmann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD,
STREET: 28 State Street
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; SEQUENCE DESCRIPTION: US-10-921-613-1
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Best Local Similarity
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SEQUENCE CHARACTERISTICS:
LENGTH: 2581 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEPAX: (617)742-4214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/013,634
PILING DATE: 26-JAN-1998
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/921,613
FILING DATE: 18-Aug-2004
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear MOLECULE TYPE: CDNA FEATURE:
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                          TTCCTGCTCTCCTTCGTCGTGCTCCTGCTGCACGTACCTCAAGGTGCTCAAGGTGGCCCGC
                                                                                                     CGGCGGCCAGACGAGCGCCTGCGCTTCGCCGTCTTCACTGGCGCCTTTCCACGCTCTCAGC
                                                                                                                                                                               GCGCTCGCCCTGTCCTGGCTCCGGCTTCCACCAGCTGTACGCCTCCGTGCACGCTGTGCAGC
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
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LOCATION:
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Pred. No. 4.9e-252;
Pred. marches 3; Indels
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Patent No. US20020055137A1
GENERAL INFORMATION:
APPLICANT: M. Alexandra Gluckemann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
                                                                                                                                     INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                               APPLICATION NUMBER: 09/175,983
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEPHONE: (617)32-4214
TELEPHONE: (617)32-4214
                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/742,732
FILING DATE: 20-Dec-2000
CLASSIFICATION: -Unknown>
PRIOR APPLICATION DATA:
                      FEATURE:
                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD,
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                                                                      LENGTH: 1011 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCTTGGCGTACAGCAAGGCCGCATCCGACCCCTTTGTGTACTCCTTACTGCGACACCACCAG 900
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Boston STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGGTGTCTGAGTGA 1014
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NAME/KEY:
                                                          TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET:
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; SEQUENCE DESCRIPTION: SEQ ID NO: US-09-742-732-3
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Best Local Similarity
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RESULT 7
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APPLICANT: M. ALEXANDRA Glucksmann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PILING DATE: 18-Aug-2004
CLASSIFICATION: <UNKnown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/013,634
FILING DATE: 26-JAN-1998
ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECHONE: (617)27-7400
TELECHONE: (617)27-7400
                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/921,613
                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: CDS
LOCATION: 1..1011
SEQUENCE DESCRIPTION: SEQ ID
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MEDIUM TYPE: Floppy disk
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CTGGCTGCCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCTC
                                                                              CCGCTCACGCTGGCCGCCTCGTGGCCGCAGCGGCAGCCGGCGACCCTGTGCCGC
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Pred. No. 2.8e-251;
Pred. No. 3;
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WESULT 8
US-10-505-486-172
Sequence 172, Application US/10505486
Publication No. US20050118639A1
GENERAL INFORMATION:
APPLICANT: Takeda Chemical Industries, Ltd.
TITLE OF INVENTION: Determination of a ligand
PILE REFERENCE: P03-0006PCT
CURRENT APPLICATION NUMBER: US/10/505,486
CURRENT FILING DATE: 2004-08-20
PRIOR APPLICATION NUMBER: JP 2002-45728
PRIOR APPLICATION NUMBER: JP 2002-213949
PRIOR APPLICATION NUMBER: JP 2002-213949
PRIOR APPLICATION NUMBER: JP 2002-213949
PRIOR APPLICATION NUMBER: JP 2002-237
PRIOR APPLICATION NUMBER: JP 2002-298237
PRIOR PILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 233
SEQ ID NO 172
LENGTH: 1728
CRGANISM: Human
US-10-505-486-172
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Similarity 99.7
08; Conservative
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Pred. No. 2.9e-251;
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SEQ ID NO 97
LENGTH: 1014
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Best Local Similarity 98.3
Matches 997; Conservative
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ORGANISM: Homo sapiens
-10-083-168-97
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TITLE OF INVENTION: Receptors
FILE REFERENCE: AREN-0320
CURRENT APPLICATION NUMBER: US/10/083,168
CURRENT FILING DATE: 2002-02-26
NUMBER OF SEQ ID NOS: 102
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APPLICANT: Ortu
APPLICANT: Lin,
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APPLICANT: Chalmers, Derek T.
APPLICANT: Behan, Dominic P.
APPLICANT: Maciejewski-Lenior
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TTCCATTGCAAGCGCATCGACGTGATCACCATGCAGACGCTCGTGCTGCTGGTGGACCTG
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Pred. No. 3e-246; 
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TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
NAME/KEY: GPCR #115
LOCATION: (1)..(1172)
OTHER IMFORMATION: Q9QXI3
US-10-735-991-3
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APPLICANT: MARK, David Fu-Chi
APPLICANT: MARK, David Fu-Chi
APPLICANT: MARKIN, Mitchell Lee
APPLICANT: ROSINSKI, James Andrew
TITLE OF INVENTION: Sequence #115 as a target for identifying weight modulating
TITLE OF INVENTION: compounds
FILE REFERENCE: 21366
FILE REFERENCE: 21366
CURRENT FILING DATE: 2003-12-15
PRIOR APPLICATION NUMBER: US 60/436,375
PRIOR RILING DATE: 2002-12-23
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/10735991 Publication No. US20040121395A1 GENERAL INFORMATION:
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Best Local Similarity
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Pred. No. 1.6e-215;
0; Mismatches 91;
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APPLICANT: Hyseq, Inc.

TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUE
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRA
FILE REPERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOPTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 26254
LENGTH: 585
                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
US-09-918-995-26254
JS-09-918-995-26254
Sequence 26254, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:
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RESULT 12 US-10-321-807-31

Sequence 31, Appropriate Publication No.

Application US/10321807 No. US20030166148A1

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Best Local Similarity
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NAME/KEY: misc_feature
LOCATION: (1)...(585)

OTHER INFORMATION: n = 1
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              GCTCCATCCACTCCTCTGGCCTCACAGGCGACTCTCACAGGCCAGAACATTCTGCCGG
                                                                  TACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTGCACAGAC
                                                                                                                       GGGTGCTGTCCAAGTGCTTGGCGTACAGCAAGGCCGCATCCGACCCCTTTGTGTACTCCT
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GCTCCATCCACTCTCTGGCCTCACAGGCGACTCTCACAGCCAGAACATTCTGCCGG
                                                  TACTGCGACACCAGTACCGCAAAAGCTGCAAGGAGATTCTGAACAGGCTCCTGCACAGAC
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Pred. No. 1e-112;
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GENERAL INFORMATION:
APPLICANT: Chen, Rupong
APPLICANT: Chen, Rupong T.
APPLICANT: Chen, Rupong T.
APPLICANT: Lowitz, Kevin P.
TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
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TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
TITLE OF INVENTION: NO. US20030166148A1-Endogenous, Constitutively Activated Human G I
TITLE OF INVENTION NUMBER: US/10/321,807
CURRENT FILING DATE: 1999-11-16
PRIOR APPLICATION NUMBER: E0/166,088
PRIOR FILING DATE: 1999-11-17
PRIOR APPLICATION NUMBER: 60/166,088
PRIOR FILING DATE: 1999-11-17
PRIOR APPLICATION NUMBER: 60/166,369
PRIOR FILING DATE: 1999-11-17
PRIOR APPLICATION NUMBER: 60/166,369
PRIOR FILING DATE: 1999-12-23
PRIOR FILING DATE: 1999-12-23
PRIOR FILING DATE: 1999-12-23
PRIOR FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: 60/171,901
PRIOR APPLICATION NUMBER: 60/171,901
PRIOR APPLICATION NUMBER: 60/171,900
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PRIOR APPLICATION NUMBER: 60/181,749
PRIOR FILING DATE: 2000-02-11
Remaining Prior Application data removed
NUMBER OF SEQ ID NOS: 133
SOFTWARE: Patentin version 3.0
SEQ ID NO 31
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    TGCTTGGCGTACAGCAAGGCCGCATCCGACCCCTTTGTGTACTCCTTACTGCGACACCAG
                                                   AGGCTAGTGGAGCTCTTCTCCACGGTGCCCATCGGCTCCCACTGGGGGGGTGCTGTCCAAG
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Pred. No. 1.1e-98;
0; Mismatches 343
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US-10-321-807-31
; Sequence 31, Application US/10321807
; minimation No. US20040137563A9
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SEQ ID NO 31
LENGTH: 1092
TYPE: DNA
ORGANISM: Homo &
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                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                         Remaining Prior Application data removed - NUMBER OF SEQ ID NOS: 133 SOFTWARE: PatentIn version 3.0
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PRIOR FILING DATE: 2000-11-16
PRIOR APPLICATION NUMBER: 09/170,496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 1999-11-17
PRIOR APPLICATION NUMBER: PCT/US99/23938
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: 60/166,088
PRIOR APPLICATION NUMBER: 60/166,088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: ARENOO86
CURRENT APPLICATION NUMBER: US/10/321,807
CURRENT FILING DATE: 2002-12-16
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APPLICANT: Lowitz, Kevin P.
TITLE OF INVENTION: Non-Endogenous,
TITLE OF INVENTION: Receptors
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PRIOR APPLICATION NUMBER: 60/166,099
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FILING DATE: 1999-12-23
APPLICATION NUMBER: 60/171,901
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Pred. No. 1.1e-98;
0; Mismatches 343
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RESULT 14

US-10-314-048A-31

Sequence 31, Application US/10314048A

Publication No. US20040142377A1

GENERAL INFORMATION:

APPLICANT: Unett, David J.

APPLICANT: Chen, Ruoping

APPLICANT: Richman, Jeremy

APPLICANT: Connolly, Daniel

APPLICANT: Connolly, Daniel

APPLICANT: Choi, Bryan

APPLICANT: Leonard, James

APPLICANT: Liaw, Chen

APPLICANT: Behan, Dominic P.
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         P: Lowitz, Kevin P.
P: Behan, Dominic P.
P: Chalmers, Derek T.
P: Lerner, Michael
P: Lerner, Michael
ROUGHTION: Human G Protein-Coupled Receptors and Modulators Thereof
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FILE REFERENCE: 22.US6.CIP
CURRENT APPLICATION NUMBER: US/10/314,048A
CURRENT FILING DATE: 2002-12-06
PRIOR APPLICATION NUMBER: 10/096,511
PRIOR FILING DATE: 2002-03-12
PRIOR FILING DATE: 2002-03-12
PRIOR FILING DATE: 2002-03-12
PRIOR FILING DATE: 2001-11-27
PRIOR FILING DATE: 2001-11-27
PRIOR APPLICATION NUMBER: 60/399,917
PRIOR FILING DATE: 2001-11-27
PRIOR FILING DATE: 2002-07-29
PRIOR FILING DATE: 2002-07-29
PRIOR FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: 60/404,761
PRIOR APPLICATION NUMBER: 60/410,747
PRIOR FILING DATE: 2002-09-13
NUMBER OF SEQ ID NOS: 161
SOFTWARE: Patentin version 3.1
LENGTH: 1092
TYPE: DNA
ORGANISM: Homo sapiens
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                                  CACCCCAGTGTGCGGGAACGCTGTCTGGAGGAGCAGAAAGCGGAGGCGACAGCGAGCCACC
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Pred. No. 1.1e-98;
0; Mismatches 343;
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; ORGANISM: Homo
US-10-897-815-31
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US-10-897-815-31
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PRIOR APPLICATION NUMBER: US/10/897,815
CURRENT FILING DATE: 2004-07-23
PRIOR APPLICATION NUMBER: US/10/314,048
PRIOR FILING DATE: 2002-12-06
PRIOR APPLICATION NUMBER: 10/096,511
PRIOR APPLICATION NUMBER: 09/995,543
PRIOR FILING DATE: 2001-11-27
PRIOR PILING DATE: 2001-11-27
PRIOR APPLICATION NUMBER: 60/399,917
PRIOR APPLICATION NUMBER: 60/399,917
PRIOR APPLICATION NUMBER: 60/404,761
PRIOR APPLICATION NUMBER: 60/404,761
PRIOR APPLICATION NUMBER: 60/404,761
PRIOR FILING DATE: 2002-08-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Unett, E
APPLICANT: Chen, R
APPLICANT: Richmar
APPLICANT: Connoll
APPLICANT: Dang, E
APPLICANT: Choi, E
APPLICANT: Leonard
                                                                                                                                                                                             SOFTWARE: PatentIn version
SEQ ID NO 31
LENGTH: 1092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 31, Application US/10897815
Publication No. US20050004178A1
                                                                           Query Match
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                                                                       Matches
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 161
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Behan, Dominic P.
Phalmers, Derek T.
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 ATGGGCCCCGGCGAGGCGCTGCTGGCGGGGTCTCCTGGTGATGGTACTGGCCGTGGCGCTG
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Leonard, James
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Richman, Jeremy
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Conservative
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                                                                   Score 418.2; DB 21; Length 1092; Pred. No. 1.1e-98; 0; Mismatches .343; Indels 0;
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Search completed: July 5, 2005, 16:12:07 Job time : 737 secs

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1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
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3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*
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US-08-65-509-502
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	cation US/090136 7 TON: Alexandra Gluck Alexandra Gluck TION: LIGAND RE ENCES: 14 ADDRESS: LAHIVE & COCKFIE State Street n achusetts A BLE FORM: B-Floppy disk BM PC compatible STEM: PC-DOS/MS ATION DATA: NUMBER: US/09/0 ON: INFORMATION: nON DATA: NUMBER: INFORMATION: nON, Jean M. Sil. NUMBER: MUMBER:		1161 1367 1367 1370 1370 1370 1370 1370 1370 1466 1466 1466 1466 1466 1466 1466 146
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Query Match 99.1 Best Local Similarity 99.7 Matches 1011; Conservative

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Score 1009.2; DB Pred. No. 3e-205; 0; Mismatches

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RESULT 2
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Best Local Similarity
Matches 1008; Conserv
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/013,634
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
PRIOR APPLICATION NUMBER:
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APPLICANT: M. Alexandra Glucksmann and Keith Robison
TITLE OF INVENTION: LIGAND RECEPTORS AND USES THEREFOR
NUMBER OF SEQUENCES: 14
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TELEPAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
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ATTORNEY/AGENT INFORMATION:
NAME: Attorney, Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-036
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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ADDRESSEE: LAHIVE &
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STATE: Massachusetts
COUNTRY: USA
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Pred. No. 1.1e
0; Mismatches
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RESULT 3
US-08-540-650B-6
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                COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/540,650B
FILING DATE: 11-OCT-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                        NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                     TITLE OF
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FUJII, Ryo
FUKUSUMI, Shoji
OHTAKI, Tetsuya
HOSOYA, Masaki
OHGI, Kazuhiro
ONDA, Haruo
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RESULT 4
US-09-826-509-502
US-09-826-509-502
; Sequence 502, Application US/09;
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Liaw, Chen W.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Liaw, I-Lin
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US-08-540-650B-6
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FILING DATE: 31-MAY-1995
APPLICATION NUMBER: 6-326610
FILING DATE: 28-DEC-1994
APPLICATION NUMBER: 6-247599
FILING DATE: 13-OCT-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 617-523-6440
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: RESNICK, DAVID S
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 45
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: Nucleic acid
STRANDEDNESS: Double
TOPOLOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IDENTIFICATION METHOD:
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                                     TCAGCTTCCTGCTCCTTCGTCGTGCTCTGCTGCACGTACCTCAAGGTGCTCAA 590
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TCGGCTACCTGCCGCCTCCTCCTCATCTGCTATGCCAAGGTCCTTAA
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Pred. No. 9.5e-08;
0; Mismatches 265; Indels
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355 382 295

559 475 499 415 322

Gaps

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US/09826509

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; LENGTH: 1050
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-502
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US-09-016-434-1423
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Best Local Similarity 49.3%;
                                                                                                                                                                                                Sequence 1423, Application US/09016434 Patent No. 6500938
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 502
                                                                                   GENERAL INFORMATION:
APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION F
TITLE OF INVENTION: PATHWAY GENE
NUMBER OF SEQUENCES: 1490
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CURRENT FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,747
PRIOR FILING DATE: 2000-04-07
PRIOR PPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known TITLE OF INVENTION: Protein-Coupled Receptors FILE REFERENCE: AREN-207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Version 2.1
                              CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS,
STREET: 3174 PORTER DRIVE
 STREET: SILVERY PALO ALTO
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CALIFORNIA
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Pred. No. 9.5e-08;
                                                                                                        FOR THE DETECTION OF SIGNALING EXPRESSION
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Best Local (
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TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: PA
TELECOMMUNICATION INFORMATION:
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NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IMMEDIATE SOURCE:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
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CLONE: 9559047
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STRANDEDNESS: sing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
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                    TCGGCTACCTGCTGCTCCTGCTCATCTGCTTCTGCTATGCCAAGGTCCTTAA
                                                       TCAGCTTCCTGCTCCTTCGTCGTGCTCTGCTGCACGTACCTCAAGGTGCTCAA
                                                                                         GCTGGGAGCAGTGGCCCGACCTCGCCACAAGAAGGCCTACGTGGTGCACCTTCGTCT
                                                                                                                           GCAGCCGGCGGCCAGACGAGCGCCTGCGCTTTCGCCGTCTTCACTGGCGCCTTTCCACGCTC
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Pred. No. 9.5e-08;
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US-08-513-974B-31
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Patent No. (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP95/01599
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
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PRIOR APPLICATION DATA:
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ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
                                                                                              ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
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APPLICATION NUMBER:
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MEDIUM TYPE: Floppy disk
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                                ELECOMMUNICATION INFORMATION:
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ITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
ITLE OF INVENTION: PRODUCTION, AND USE THEREOF
                                                               NAME: Resnick, David S
REGISTRATION NUMBER: 3
                                                                                                           APPLICATION NUMBER: FILING DATE: 11-AUC
                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE: 02-NOV
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                                                 REFERENCE/DOCKET NUMBER:
                                                                                                                                                         FILING DATE:
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                 TELEPHONE:
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US-08-513-974B-31
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GENERAL INFORMATION:
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nes 212; Conserv
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STRANDEDNESS: double
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                                                  COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARB: FBSETSEM: DOS
SOFTWARB: FBSETSEM: DOF WINDOWS VERSION
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776,971B
FILING DATS: 06-FbD-1997
CLASSIFICATION: Unknown>
                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
            PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP96/03821
                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: POLYPROTEINS, NUMBER OF SEQUENCES: 140
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCTCAGCATCGACCGCTG 314
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                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 02109
                                                                                                                                                                                                                                                                               STATE: MA
                                                                                                                                                                                                                                                                                                                      STREET:
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FILING DATE: 28-DEC-1996
                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/08776971B
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                                                                                                                                                                                                                                                                                               Boston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hinuma,
                                                                                                                                                                                                                                                                                                                                                                                                                  Fukusumi, Shoj
Kitada, Chieko
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fujii, Ryo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hosoya, Masaki
                                                                                                                                                                                                                                                                                                                    130 Water Street
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51.1%;
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                 THEIR PRODUCTION AND USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9.6e-08
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RESULT 8
US-09-461-436B-31
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                                                                                                                                                                                     Sequence 31, Application Patent No. 6538107
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: JP 7/343371
FILING DATE: 28-DEC-1995
APPLICATION NUMBER: JP 8/59419
FILING DATE: 15-MAR-1996
APPLICATION NUMBER: JP 8/211805
FILING DATE: 12-AUG-1996
APPLICATION NUMBER: JP 8/246573
PILING DATE: 18-SEP-1996
APPLICATION NUMBER: JP 8/246573
PILING DATE: 18-SEP-1996
APPLICATION NUMBER: JP 8/246573
PILING DATE: 18-SEP-1996
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Local Similarity 51.1%;
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               CORRESPONDENCE ADDRESS:
ADDRESSEE: Edwards & Angell, LLP
STREET: 101 Federal Street
                                                                                                                                                  APPLICANT: Shuji Hinuma
Yasuaki Ito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 1110 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
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                                                                                          TITLE OF INVENTION: G Protein Coupled Receptor Protein, Production, And Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE DESCRIPTION: SEQ ID NO: 26:
                                                                         NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCGCGCTCAGCATCGACCGCTG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 617-523-6440
                                                                                                                                Ryo Fujii
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Pred. No. 9.6e-08;
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Best Local Similarity
Matches 212; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 11-AUG-1994
APPLICATION NUMBER: 6-189272
FILING DATE: 11-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: CONLIN, DAVID G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-439-4444
TELEFAX: 617-439-4170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Patentin Release #1.0, VICTURENT APPLICATION DATA:
APPLICATION NUMBER: US/09/461,436B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA: 08/513,974
360
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                                                                                                                                                                                                                                                                  18 GGGCCTGGCGGGCTACTGGTGGGCACGATGGGCGTCTCGCTGCTGTTCCAACGCGCTGGT
                                                                                                      GAACCTCACGTGCGGGAACCTGCTGGTCGACCGTGACACGCTGGCCGG
                           CGTCGTGGCGCAGCGGCGCG----GGCGACCGCCTGTGCCGCCTGGCCTTCCT
                                                                                                                                                      GCTGGTGCTGGTGATCGCGCGGGTGCGCCCGGCTGCACAACGTGACGAACTTCCTCATCGG
                                                                                                                                                                                       GGGGCTGATCGTGCTGCTCTACAGCGTCGTGGTGGTGGTGGGGGCTGGTGGGCAACTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: nucleic acid STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/JP95/01599
FILING DATE: 10-AUG-1995
APPLICATION NUMBER: 7-093989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
TGCCTTCGAGCCACGCGGCTGGGTGTTCGGCGGCGGCCTGTGCCACCTGGTCTTCTTCCT
                                                                            CAACCTGGCCTTGTCCGACGTGCTCATGTGCACCGCCTGCGTGCCGCTCACGCTGGCCTA 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 45753
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 6-18
FILING DATE: 11-AUG-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 14-SEP-1995
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COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 20-JAN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER:
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nilarity 51.1%;
Conservative
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Pred. No. 9.6e-08;
0; Mismatches 200;
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Patent No. 679449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION: APPLICANT: Hinuma
                                                           TELEFAX: 617-523-6440
                                                                                                                                                                                         PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: JP 8/246573
                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/576,290
                                              SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                     FILING DALE. - DATA:
PRIOR APPLICATION DATA:
PRIOR APPLICATION UMBER: JP 8/211805
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7/343371
FILING DATE: 28-DEC-1995
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APPLICATION NUMBER:
                                                                                                         REFERENCE/DOCKET NUMBER: 47
                                                                                                                                                                 FILING DATE: 18-SEP-1996
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                           APPLICATION NUMBER: JP 8 FILING DATE: 15-MAR-1996
                                                                                                                                     NAME: Conlin, David REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM CO
OPERATING SYSTEM:
SOFTWARE: FastSE
                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
 STRANDEDNESS:
                                                                                          TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: U
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                            ENGTH:
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nucleic acid
EDNESS: double
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F: Kitada, Chieko
INVENTION: POLYPROTEINS,
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                            1110 base pairs
                                                                          617-523-6440
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Fujii, Ryo
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Kawamata, Yuji
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                                                                                          617-523-3400
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APPLICATION NUMBER: PCT/JP95/01599
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:

FILING DATE: 1. CLASSIFICATION: APPLICATION NUMBER:

14-SEP-1995

US/08/513,974B

Release #1.0, Version #1.30

FILING DATE: 19-AUG-1995 PRIOR APPLICATION DATA:

APPLICATION NUMBER:

JP 7-093989

JP 7-057186

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RESULT 10
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MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA;
                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
                                                                                                                                                                                                                                                                                APPLICANT: Fukusumi, Shoji
APPLICANT: Ohgi, Kazuhiro
TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
TITLE OF INVENTION: PRODUCTION, AND USE THEREOF
                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                     APPLICANT
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                                                                                                                                                                 CITY: Boston
STATE: MA
                                                                                                                                          COUNTRY:
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                                                                                                                                                                                                          130 Water Street
                                                                                                                                              USA
                                                                                                                                                                                                                                                                                                                                                                   Ohtaki,
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ci, Tetsuya
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Pred. No. 9.6e-08;
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:

28-DEC-1994

JP 6-326611

FILING DATE:

20-JAN-1995

JP 7-007177

PRIOR APPLICATION DATA:
APPLICATION NUMBER:

16-MAR-1995

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657 GCTGGCCATCTGGGGGCTGTCCGCGGGGGGTGCTGGCCGCGCGGTGCACACC 711

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Best Local Similarity
Matches 212; Conserv
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INFORMATION FOR SEQ ID NO:
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APPLICATION NUMBER: JP 6-
FILTNC DAME
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PRIOR APPLICATION NUMBER: JP 6-236357
PILING DATE: 30-SEP-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: JP 6.
FILING DATE: 11-AUG-1945
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6.
FILING DATE: 11-AUG-1994
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PRIOR APPLICATION NIMBER: JP 6-270017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 45'
TELECOMMUNICATION INFORMATION: 617-523-3400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: FILING DATE: 02-NOV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
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                                    597
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CATGGTGGCCTACACGTGGCTGCACGCGCTCACCTTCCCAGCCGCCGCGCGCTCGCC 429
                                    CGTCGTGCTGGTGCACCCGCTGAGGCGGCGCATCTCGCTGCGCCTCAGCGCCTACGCTGT
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                                                                                                                                                                                                                                                                                                                               GCTGGTGCTGGTGATCGCGCGGGTGCGCCCGGCTGCACAACGTGACGAACTTCCTCATCGG 416
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Pred. No. 9.9e-08;
0; Mismatches 200; Indels
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RESULT 11
US-08-776-971-103
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Best Local Similarity
Matches 212; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 103:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Vers:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776,971B
FILING DATS: 06-Feb-1997
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: JP 8/246573
FILING DATE: 18-SEP-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fukusumi, Shoji
Kitada, Chieko
TITLE OF INVENTION: POLYPROTEINS, THEIR PRODUCTION AND USE
NUMBER OF SEQUENCES: 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Hinuma, Shuji
Habata, Yugo
Kawamata, Yuji
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ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
GGGGCTGATCGTGCTCTACAGCGTCGTGGTGGTCGTGGGGGCTGGTGGGCAACTGCCT
                                    egeccreecegecracreeregecaceargescricreerecrecrecaceaceceere
                                                                                                                                                                                                                                                                                           LENGTH: 1331 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                               LOCATION: 118...1
OTHER INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Conlin, David G. REGISTRATION NUMBER: 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: JP 8/59419 FILING DATE: 15-MAR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/JF96/03821
FILING DATE: 28-DEC-1996
APPLICATION NUMBER: JP 7/343371
FILING DATE: 28-DEC-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 12-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: JP 8/211805
                                                                                                                                                                                                                                    NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 617-523-6440
                                                                                                                                                                                                                                                                           TOPOLOGY: linear
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                                                                             Conservative
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Hosoya, Masaki
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                                                                                             7.8%;
51.1%;
                                                                                                                                                                                                                  Coding Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                      617-523-3400
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                                                                           Score 79; DB 3; Lo
Pred. No. 9.9e-08;
0; Mismatches 200;
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                                                                                                                    Length 1331;
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RESULT 12
US-09-576-290-103
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tent No.
                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 8/59419
FILING DATE: 15-MAR-1996
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN,
STREET: 130 Water Street
                                                                               APPLICATION NUMBER: JP 8/211805
FILING DATE: 12-AUG-1996
PRIOR APPLICATION DATA:
                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7,
FILING DATE: 28-DEC-1995
                                                                                                                                                                                                                                                                             FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Fukusumi, Shoji
APPLICANT: Kitada, Chieko
TITLE OF INVENTION: POLYPROTEINS,
NUMBER OF SEQUENCES: 140
                             FILING DATE: 18-SEP-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM CO
OPERATING SYSTEM:
SOFTWARE: FastSE
                                                 APPLICATION NUMBER: FILING DATE: 18-SE
                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/576,290
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REGISTRATION NUMBER:
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                Conlin,
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Fujii, Ryo
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Kawamata, Yuji
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                                                                    JP 8/246573
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                                                                                                                                                                                                                                                                                 08/776,971
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APPLICANT:

FUKUSUMI, Shoji OHTAKI, Tetsuya HOSOYA, Masaki OHGI, Kazuhiro ONDA, Haruo

HINUEL.,
FUJII, Ryo
FUJII, Shoji

APPLICANT:

TITLE OF INVENTION: GALANIN NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN

RECEPTOR PROTEIN, PRODUCTION AND USE THEREOF

130 WATER STREET

BRONSTEIN,

ROBERTS

APPLICANT:
APPLICANT:

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

COUNTRY: U STATE: STREET: CITY: BOSTON

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NAME/KEY: Coding
LOCATION: 118...1
OTHER INFORMATION:
US-09-576-290-103
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                                                                                 US-08-540-650B-11
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                                              Sequence 11, Application US/08540650B Patent No. 6399325
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Best Local Similarity
Matches 212; Conserv
                                  GENERAL INFORMATION:
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS
LENGTH: 1331 base pair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 47:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
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TOPOLOGY: li
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51.1%;
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Pred. No. 9.9e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1331;
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Best Local Similarity 49.3%;
Matches 264; Conservative
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PRIOR APPLICATION DATA:
7-134412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 722...1768
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 45
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
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CURRENT APPLICATION DATA:
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APPLICATION NUMBER: 6-326610
FILING DATE: 28-DEC-1994
APPLICATION NUMBER: 6-247599
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APPLICATION NUMBER: 7-134
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STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
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TCGGCTACCTGCTGCTCCTGCTCATCTGCTTCTGCTATGCCAAGGTCCTTAA 1395
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Pred. No. 1.1e-07;
0; Mismatches 265
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                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                           Best Local Similarity
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TELEFAX: (610)454-3808
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PILING DATE: 17-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCI
FILING DATE: 14-FEB-1995
ATTORNEY/AGENT INFORMATION:
NAME: Smith Ph.D., Julie K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: AMIRANOFF, Brigitte APPLICANT: LOQUET, Isabelle TITLE OF INVENTION: GALANIN RECTITLE OF INVENTION: TRANSFORME
                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                          HYPOTHETICAL: NO ANTI-SENSE: NO
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TELECOMMUNICATION INFORMATION:
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ADDRESSEE: Rhone-Poulenc Rorer Inc
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                                                                                                                                                                                                                                                                                                                                                   NAME/KEY:
LOCATION:
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FILING DATE: 17-FEB-1994
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                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
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236 GCCGCCTGGCTTCCTCGACACCTTCCTGGCTGCCAACTCCATGCTCAGCATGGCCG
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Pred. No. 1.2e-07;
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AND USES THEREOF
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RESULT 15
US-08-985-090-3
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Best Local Sim
Matches 184;
 Query Match 7.3%;
Best Local Similarity 52.7%;
Matches 184; Conservative
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                                                                                                                                                                                                                    TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1335 base pairs
                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Jean M. Silveri
REGISTRATION NUMBER: 39,030
REFERRENCE/DOCKET NUMBER: MNI-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Andrew D.J. Goodearl
TITLE OF INVENTION: MUSCARINIC RECEPTORS.
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                              NAME/KEY:
LOCATION:
                                                                                                                                                                 TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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